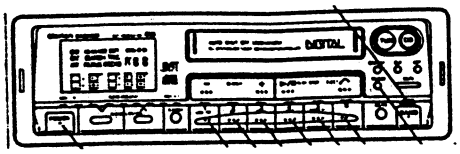
CLAR-00450



DAT COMBINATION WITH
CD CHANGER CONTROL
Model **DAC8100 (PE-5533B)**

*SPECIFICATIONS

GENERAL

POWER SUPPLY VOLTAGE:
14.4V DC

POWER CONSUMPTION:
LESS THAN 3A

DAT

MODEL: ROTATING HEAD TYPE
DIGITAL AUDIO TYPE

NUMBER OF CHANNELS:
2,STEREO PLAYBACK

TAPE SPEED:
8.15mm/S

NUMBER OF QUANTIZATION BITS:
16,LINEAR

SAMPLING FREQUENCY:
48kHz,44.1kHz or
32kHz

FREQUENCY RESPONSE:
20-20,000Hz

S/N RATIO:
92dB OR GREATER

DYNAMIC RANGE:
90dB OR GREATER

WOW & FLUTTER:
BELOW MEASURABLE
LIMITS

FM(UKW)

FREQUENCY RANGE:
87.5 TO 107.9MHz

USABLE SENSITIVITY:
12dBf

50dB QUIETING SENSITIVITY:
17dBf

FREQUENCY RESPONSE:
30 Hz TO 15kHz

AM(MW)

FREQUENCY RANGE:
531 TO 1,602kHz

USABLE SENSITIVITY:
20 uV

AUDIO

LINE LEVEL OUTPUT
2.0V (0dB;1kHz)

DIMENSIONS
178mm(W)x50mm(H)x150mm(D)

WEIGHT
1.7kg

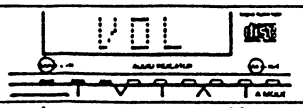
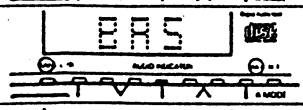
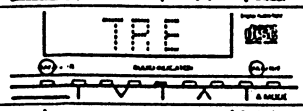
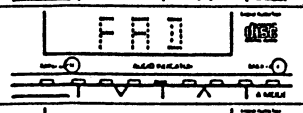
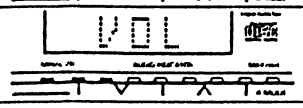
*COMPONENTS:

DAC8100(PE-5533B-A)	
MAIN UNIT	1
CTE-001-101 DEMO-TAPE	1
300-6954-00 MOUNTING BRACKET	1
300-7110-00 MOUNTING BRACKET	1
854-1559-00 EXT.LEAD (Acc)	1
854-1652-00 EXT.LEAD (RCA to DIN)	1
921-8701-00 PARTS BAG	1
330-8216-01 HOOK PLATE	2
345-3653-01 SPACER	1
345-6899-00 CUSHION RUBBER	2
700-5016-80 TAP SCREW	1
716-0726-01 SCREW	1
722-0314-00 NUT	1
725-0216-00 PLATE NUT	1
922-2141-00 PARTS BAG	1
370-3981-00 ESCUTCHEON	1

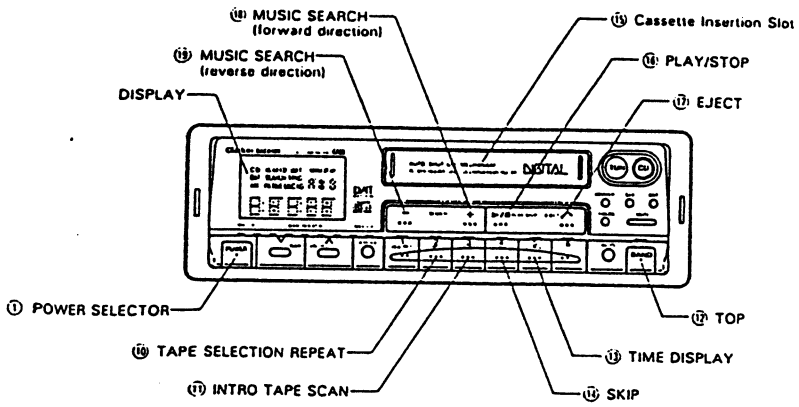
*FEATURES

PLL SYNTHESIZER TUNER
SEEK/PRESET/MANUAL TUNING
PRESET SIGNAL SCAN(PS)
AUTO STORE(AS)
AUTO RETUNE(ART)
FULL LOGIC CONTROL MECHANISM
POWER LOADING/POWER EJECT
ELECTRONIC CONTROLS
(VOLUME/BASS/TREB/BAL/FAD)
CD CHANGER CONTROL
CATS PERSONAL CODE
DEW DETECTION FUNCTION

■ **AUDIO MODE DISPLAY (The A. MODE selector is used)**

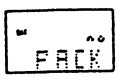
VOLUME Mode		Number of indicators lighted will increase or decrease. (MIN, MAX)	"Beep" sound with each step.
BASS Mode		When the center section is lighted "flat" (normal) tone has been selected. (MIN, MAX)	
TREBLE Mode			
BALANCE Mode		When the center section is lighted the center position (right/left) has been selected. L (LEFT) R (RIGHT)	
FADER Mode		When the center section is lighted the center position (front/back) has been selected. R (REAR) F (FRONT)	
MUTING Mode		The lighted indicator sections will flash (all audio modes).	"Beep" sounds when button is pressed.

4.2 DAT MODE

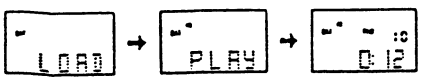


■ PLAY/STOP

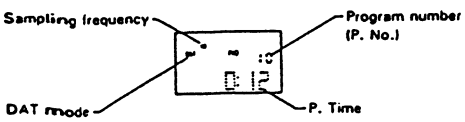
- Press ⑯ (PLAY/STOP) to turn on power. The display will indicate "NO PACK."



Insert a DAT tape correctly into ⑮ (Cassette Insertion Slot); the display will indicate "LOAD," "PLAY," and after a few seconds the P. Time indicator will appear and the tape will begin playback.

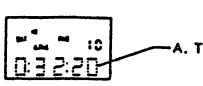


- Explanation of P. Time (Program Time) indicator:



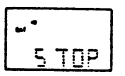
The display shown at left indicates that the program number selected is number ten. P. Time here indicates that the tape is being played back twelve seconds into the beginning of the tenth program.

- Press ⑬ (TIME DISPLAY) to switch between P. Time and A. Time (Absolutely Time).



A.Time here indicates that the tape is being played back at a point thirty-two minutes and twenty seconds from the beginning of the tape.

- To stop playback, press ⑯ (PLAY/STOP). Press the button again to recommence playback.



- When ① (POWER SELECTOR) is pressed, the power will be turned OFF.

NOTE: The P.Time, A.Time, and P.No. indicators may not be displayed depending on the recorder and method of recording employed. For details, please read the section "THE DIGITAL AUDIO TAPE" (pages 21, 22, 23).

- If the unit's power is turned off when it is in the PLAY mode:
  When ⑯ is pressed, the unit's power will turn on and the playback mode will begin. Playback will also recommence if the car's ignition switch is turned to OFF and then ON again.

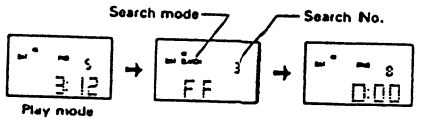
If a tape cassette is inserted incorrectly, it will be temporarily pulled into the unit, but several seconds later it will be ejected again. If you insert a tape cassette incorrectly, do not attempt to pull it out forcefully; wait a few seconds until it is ejected.

■ EJECT

- To remove a DAT tape, press ⑰ (EJECT); the tape will be ejected.
- Even if the power is turned off while a tape is inserted, the DAC8100 will eject the tape if ⑰ is pressed. (Backup eject function).

■ MUSIC SEARCH (forward direction)

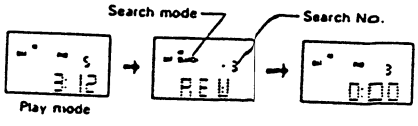
- The music search function allows you to go directly to any program on a tape, located up to 99 programs away in either direction.
- When ⑱ (forward direction MUSIC SEARCH) is pressed, the tape will be forwarded to the next program on the tape. If the button is held depressed, the search numbers will be incremented sequentially, and when the number reaches "99" or the button is released, the search function will begin.
- When the unit is in the play mode shown in the illustration below and ⑱ is pressed three times, the display will change to that shown, and the unit will begin playback at the designated program.



- If the tape reaches its end during the use of the search function, the search function will be cancelled and the tape will be automatically rewound; play will then automatically begin again from the tape's beginning.
- If an attempt is made to begin the search function during the stop or eject modes, the search function command will not be accepted.
  - The search control button will respond, however, during operation of the INTRO TAPE SCAN function. In this case, the INTRO TAPE SCAN function will be automatically cancelled.

■ MUSIC SEARCH (reverse direction)

- When ⑲ (reverse direction MUSIC SEARCH) is pressed during the playback of a program, the tape will be reversed to the beginning of that program and playback will be recommenced from that point. To reverse the tape to the beginning of the program immediately preceding the presently playing program, press the search button twice. If the button is held depressed, the search numbers will be decremented sequentially, and when the search number reaches "–99" or the button is released, the search function will begin operation.
- When the unit is in the play mode shown in the accompanying illustration and ⑲ is pressed three times, the display will change to that shown, and the unit will begin playback at the designated program.

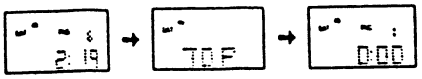


- If the tape reaches its beginning during the use of the search function, the search function will be cancelled and playback will then automatically begin again from the tape's beginning.
- If an attempt is made to begin the search function during the stop or eject modes, the search function command will not be accepted.
  - The search control button will respond, however, during operation of the INTRO TAPE SCAN function. In this case, the INTRO TAPE SCAN function will be automatically cancelled.

NOTE: The music search function will not operate if no "start ID" subcode has been recorded on the tape.

■ TOP

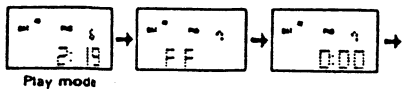
- If ⑫ (TOP) is pressed, whatever function is currently operating will be cancelled, the tape will be automatically rewound to the tape start position (at 150x speed), and playback will begin from that point. When the tape start position is reached, an electronic tone will be produced.
- When the unit is in the play mode shown in the accompanying illustration and ⑫ is pressed, the display will change to that shown, and the unit will begin playback.



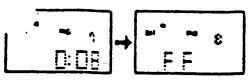
Play mode

■ INTRO TAPE SCAN

- When ⑪ (INTRO TAPE SCAN) is pressed, the indicator above ⑪ will light, and the tape will be automatically forwarded to the next program, where playback will begin. After playing back the first eight seconds or so of the program, the tape will be automatically fowarded to the next program in order, where about eight seconds of that program will be played. This operation will be repeated until the end of the tape is reached. At that point the tape will be automatically rewound to its beginning, where the scan operation will recommence.
- When the unit is in the play mode shown in the accompanying illustration and ⑪ is pressed, the display will change to that shown, and the scan operation will begin.



Play mode



- If the end of a tape is reached during operation of the scan function, the unit will return to the first program on the tape and continue the scan operation from that point.
- To cancel the scan function, press ⑯ or ⑪.
- During operation of the scan function, ⑱ and ⑲ may be pressed to begin the search operation; in this case, the scan function will be automatically cancelled.

NOTE: The INTRO TAPE SCAN function will not operate if no "start ID" subcode has been recorded on the tape.

■ TAPE SELECTION REPEAT

- When ⑩ (TAPE SELECTION REPEAT) is pressed, the currently playing program will be played back repeatedly.
- When the repeat function selected, the indicator above ⑩ will light.
- During operation of the music search function, ⑩ will not respond.
- The repeat function will continue operating until it is cancelled manually.
- To cancel the repeat function, press either ⑩ or ⑯.

NOTE: The TAPE SELECTION REPEAT function will not operate if no "start ID" subcode has been recorded on the tape.

■ SKIP

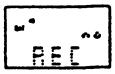
When ⑭ (SKIP) is pressed, the SKIP indicator will light; if the tape being played back has been recorded with "skip ID" subcodes, whenever a "skip ID" is detected the tape will be forwarded to the beginning of the next program (in other words, to the beginning of the next "start ID" subcode), where playback will recommence. If ⑭ is pressed again, the skip function will be cancelled and the SKIP indicator will turn off.

■ AUTO ALL-REPEAT FUNCTION

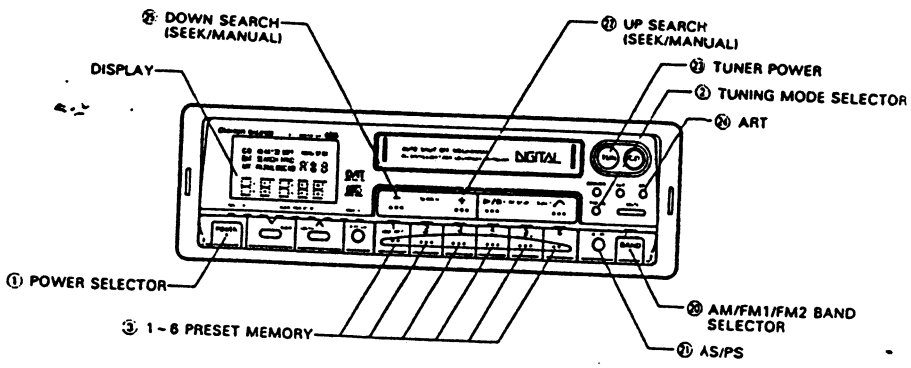
During tape playback, when the tape end or lead out is detected, the tape will be automatically rewound to its beginning and playback will recommence. During tape rewind the TOP indicator will be displayed.

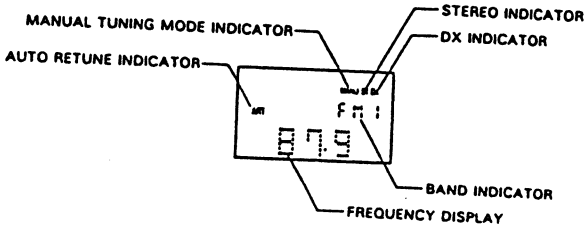
■ NON-RECORDED INTERVAL DETECTION DISPLAY

If an attempt is made to play back a tape (or part thereof) which has no signal recorded, the display will change to that shown in the accompanying illustration.



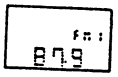
4.3 TUNER MODE





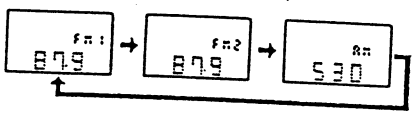
■ POWER SELECTOR

Press ⑬ (TUNER POWER) to turn the unit on. The last tuned frequency will be displayed. Press ① (POWER SELECTOR) to turn the power off.



■ AM (MW)/FM1 (UKW1)/FM2 (UKW2) BAND SELECTOR

Press ⑳ (AM/FM1/FM2 BAND SELECTOR) to select the respective band desired.
The indicator will appear in the display.



■ STATION TUNING

Press ㉒ (UP SEARCH) or ㉕ (DOWN SEARCH) to tune up or down (SEEK or MANUAL).
Press ② (TUNING MODE SELECTOR) to select SEEK or MANUAL Tuning mode.
"MANUAL" will appear in the display in Manual Tuning mode.
Nothing will appear in the display during use of the Seek Tuning mode.

■ MANUAL/SEEK TUNING

In the MANUAL mode, the Up/Down Search Control will instruct the tuner to go to the next FREQUENCY on the dial.
In the SEEK mode, the Up/Down Search Control will instruct the tuner to go to the next STATION on the dial.

■ SEEK TUNING

In the SEEK mode, press ㉒ (+) or ㉕ (–) ONCE to search for stations using LOCAL (LOW) sensitivity.
Press ㉒ (+) or ㉕ (–) TWICE to perform searches with DX (HIGH) sensitivity.
If no station is detected with LOCAL sensitivity, the tuner will automatically switch to DX sensitivity and recommence the search.

■ MEMORY PROCEDURE

Up to 12 FM and 6 AM stations may be stored in the memory to future recall.

1. Select the desired station to be stored by either SEEK or MANUAL tuning.
2. Press the desired PRESET Button of ③ (1 – 6 PRESET MEMORY) for MORE THAN TWO SECONDS. When you hear the station start play and a tone beep, the new station has been stored into memory. A preset channel indicator will appear in the display.
   You may store 6 stations in FM1 and 6 stations in FM2 in FM band. Press ⑳ (AM/FM1/FM2 BAND SELECTOR) to select FM1 or FM2. A band indicator will appear in the display.
   You may use AUTOMATIC STATION STORE function to store the stations.
   Refer to the AUTOMATIC STATION STORE explanation for details.

■ ART

When ㉔ (ART) is pressed during FM reception, the ART indicator will appear. If poor FM reception continues for 25 seconds or more, an electronic tone will sound, and the SEEK UP function will automatically operate to change the station.

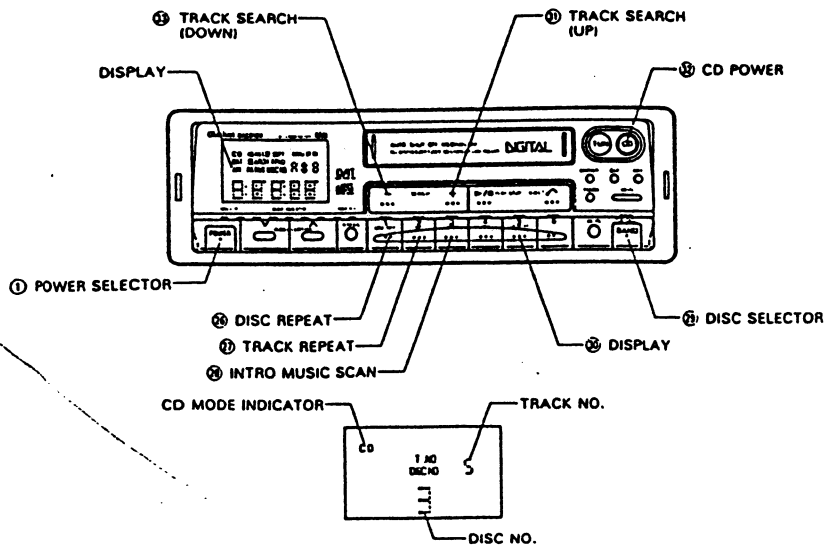
■ AUTOMATIC STATION STORE

Hold ㉑ (AS/PS) depressed for atleast TWO seconds to activate the Automatic Station Store function.
The tuner will scan the band from the current frequency and will store the six strongest stations available in the area.
In the case of FM band, FM1 and FM2 may be auto stored separately.
IF SIX STATIONS ARE NOT AVALABLE, AUTO STORE WILL STOP SCAN AUTOMATICALLY.

■ PRESET STATION SCAN

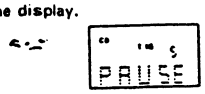
Press ㉑ (AS/PS) to activate the preset station scan function. When the button is pressed, he tuner will scan each of the stations you have stored inmemory. The channel indicator will flash five seconds and the tuner will then skip to the next station frequency stored.
When this function is activated while using the FM1 band, the tuner will scan the FM1 band only.
To scan the FM2 band, press ⑳ (AM/FM1/FM2 BAND SELECTOR) to select the FM2 band, and then press ㉑.
To stop operation of the function either press ㉑ once again, or one of the preset buttons.
The flashing indicators above ③ (1 – 6 PRESET MEMORY) indicate that those stations frequencies can currently be received.

4.4 CD CHANGER CONTROL MODE

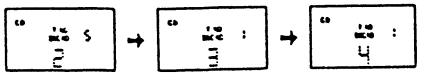


■ POWER SELECTOR/PLAY
Press ㉜ (CD POWER) to turn the unit on.
The CD auto changer will operate and playback will begin.
Press ① (POWER SELECTOR) to turn the power off.

■ P (PAUSE)
Press ㉜ (CD POWER) to stop play. "PAUSE" will appear in the display.



■ DISC SELECTION
When ㉙ (DISC SELECTOR) is pressed, the changer will select from the current disc to the next one loaded, and playback will begin from the first track on that disc. If the current disc is number 2, pressing this button will instruct the discs to be changed in the order 3 → 4 ..... 1 → 2.



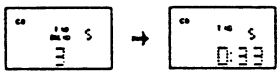
■ TRACK SEARCH
When ㉑ (UP TRACK SEARCH) is pressed, the next track on the disc will be played; when ㉓ (DOWN TRACK SEARCH) is pressed, the current track will be played again from the beginning (if currently at the beginning of a track, the previous track will be played).
If the button is held depressed continuously, the track search function will operate continuously until the last or first track number of the disc is reached.

■ DISC SELECTION REPEAT
Press ㉖ (DISC REPEAT) to activate Disc Selection Repeat.
The indicator above ㉖ will light.
The unit automatically repeats play of the disc until you cancel this function.
Press ㉖ again to cancel this function.

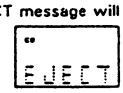
■ TRACK SELECTION REPEAT
Press ㉗ (TRACK REPEAT) to activate Track Selection Repeat.
The indicator above ㉗ will light.
The unit automatically repeats play of the track until you cancel this function.
Press ㉗ again to cancel this function

■ INTRO MUSIC SCAN
Press ㉘ (INTRO MUSIC SCAN) to activate Intro Music Scan.
The indicator above ㉘ will light.
The unit automatically plays the first TEN seconds of each track of the disc and will scan all discs until you cancel the function.
Press ㉘ again to cancel this function.

■ DISPLAY
When ⑳ (DISPLAY) is pressed, the display will change to show the track time. When the button is pressed again, the display will return to indicate the DISC NO.

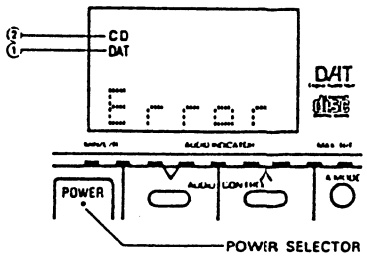


■ EJECT DISPLAY
When no magazine has been loaded in the CD autochanger, the EJECT message will be displayed.



■ ERROR DISPLAY

This unit includes a variety of self-diagnostic functions. The ERROR display will be shown in the following cases:

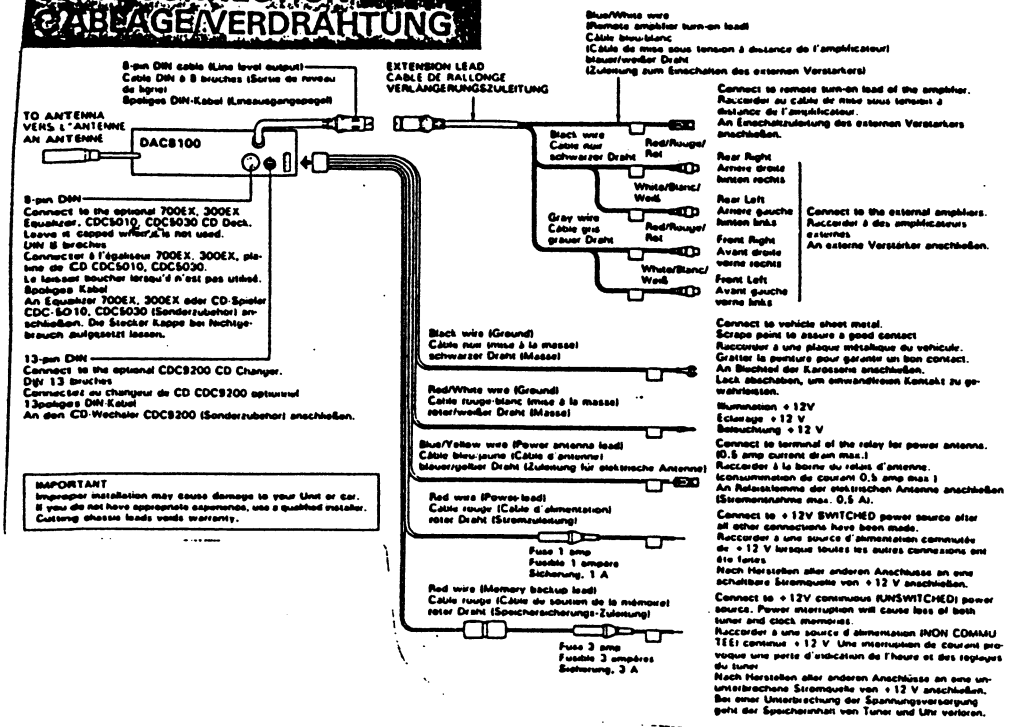


① DAT mode:
- During LOAD/EJECT, if some mechanical malfunction occurs and the mechanism's self-correcting function cannot restore proper operation.
- If a cassette is inserted whose tape is broken.

② CD mode:
- In the case of CD mechanism malfunction (moisture condensation), or abnormal heat rise (due to temperature rise within trunl).
- In the case of a mechanical malfunction in the auto changer's tracking unit.

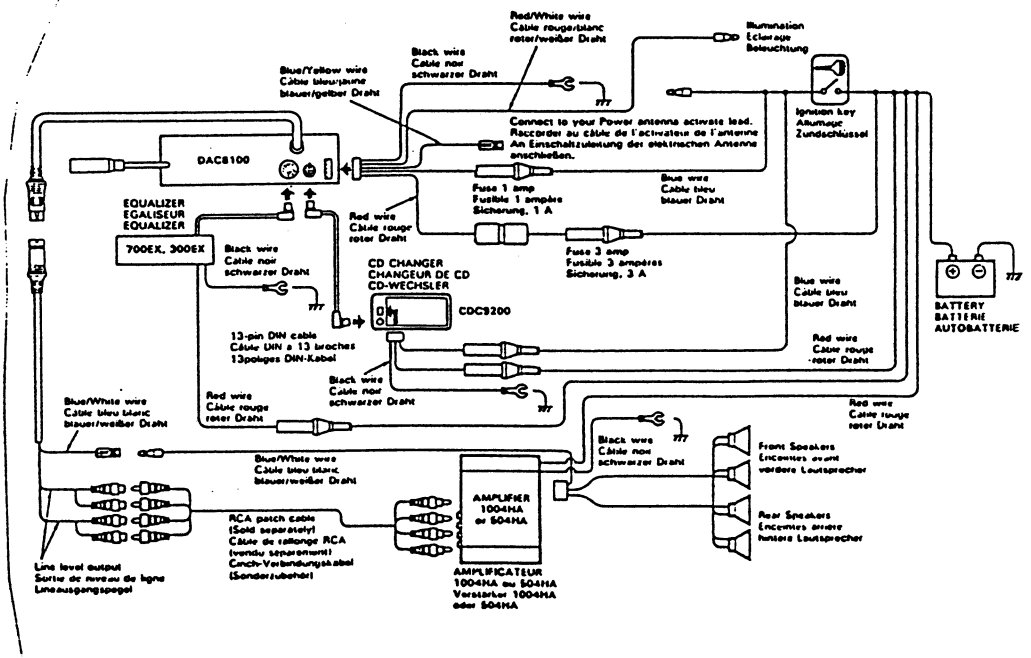
If the ERROR display is shown, one of the above problems may have occurred; as a result, rectify the problem before pressing the POWER SELECTOR again. Once the problem has been eliminated, the unit will return to its initial condition. Press POWER SELECTOR, then.

WIRE CONNECTION/ CABLAGE/VERDRAHTUNG


8-pin DIN cable (Line level output)
Câble DIN à 8 broches (Sortie de niveau de ligne)
8poliges DIN-Kabel (Lineausgangspegel)
TO ANTENNA
VERS L'ANTENNE
AN ANTENNE
DAC8100
EXTENSION LEAD
CABLE DE RALLONGE
VERLÄNGERUNGSZULEITUNG
Blue/White wire
(Remote amplifier turn-on lead)
Câble bleu-blanc
(Câble de mise sous tension à distance de l'amplificateur)
blauer/weißer Draht
(Zuleitung zum Einschalten des externen Verstärkers)
Connect to remote turn-on lead of the amplifier.
Raccorder au câble de mise sous tension à distance de l'amplificateur.
An Einschaltzuleitung des externen Verstärkers anschließen.
Black wire
Câble noir
schwarzer Draht
Red/Rouge/Rot
White/Blanc/Weiß
Gray wire
Câble gris
grauer Draht
Red/Rouge/Rot
White/Blanc/Weiß
Rear Right
Arrière droite
hinten rechts
Rear Left
Arrière gauche
hinten links
Front Right
Avant droite
vorne rechts
Front Left
Avant gauche
vorne links
Connect to the external amplifiers.
Raccorder à des amplificateurs externes.
An externe Verstärker anschließen.
8-pin DIN
Connect to the optional 700EX, 300EX Equalizer, CDC5010, CDC5030 CD Deck.
Leave it capped when it is not used.
DIN 8 broches
Connecter à l'égaliseur 700EX, 300EX, platine de CD CDC5010, CDC5030.
Le laisser bouchon lorsqu'il n'est pas utilisé.
8poliges Kabel
An Equalizer 700EX, 300EX oder CD-Spieler CDC-5010, CDC5030 (Sonderzubehör) anschließen. Die Stecker Kappe bei Nichtgebrauch aufgesetzt lassen.
13-pin DIN
Connect to the optional CDC9200 CD Changer.
DIN 13 broches
Connectez au changeur de CD CDC9200 optionnel
13poliges DIN-Kabel
An den CD-Wechsler CDC9200 (Sonderzubehör) anschließen.
Black wire (Ground)
Câble noir (masse à la masse)
schwarzer Draht (Masse)
Red/White wire (Ground)
Câble rouge-blanc (masse à la masse)
roter/weißer Draht (Masse)
Blue/Yellow wire (Power antenna lead)
Câble bleu-jaune (Câble d'antenne)
blauer/gelber Draht (Zuleitung für elektrische Antenne)
Red wire (Power lead)
Câble rouge (Câble d'alimentation)
roter Draht (Stromzuleitung)
Fuse 1 amp
Fusible 1 ampère
Sicherung, 1 A
Red wire (Memory backup lead)
Câble rouge (Câble de soutien de la mémoire)
roter Draht (Speichersicherungs-Zuleitung)
Fuse 3 amp
Fusible 3 ampères
Sicherung, 3 A
Connect to vehicle sheet metal.
Scrape paint to assure a good contact.
Raccorder à une plaque métallique du véhicule.
Gratter la peinture pour garantir un bon contact.
An Blechteil der Karosserie anschließen.
Lack abschaben, um einwandfreien Kontakt zu gewährleisten.
Illumination + 12V
Eclairage + 12 V
Beleuchtung + 12 V
Connect to terminal of the relay for power antenna. (0.5 amp current draw max.)
Raccorder à la borne du relais d'antenne. (consommation de courant 0.5 amp max.)
An Relaisklemme der elektrischen Antenne anschließen (Stromentnahme max. 0.5 A).
Connect to + 12V SWITCHED power source after all other connections have been made.
Raccorder à une source d'alimentation commutée de + 12 V lorsque toutes les autres connexions ont été faites.
Nach Herstellen aller anderen Anschlüsse an eine schaltbare Stromquelle von + 12 V anschließen.
Connect to + 12V continuous (UNSWITCHED) power source. Power interruption will cause loss of both tuner and clock memories.
Raccorder à une source d'alimentation (NON COMMUTEE) continue + 12 V. Une interruption de courant provoque une perte d'indication de l'heure et des réglages du tuner.
Nach Herstellen aller anderen Anschlüsse an eine ununterbrochene Stromquelle von + 12 V anschließen. Bei einer Unterbrechung der Spannungsversorgung geht der Speicherinhalt von Tuner und Uhr verloren.

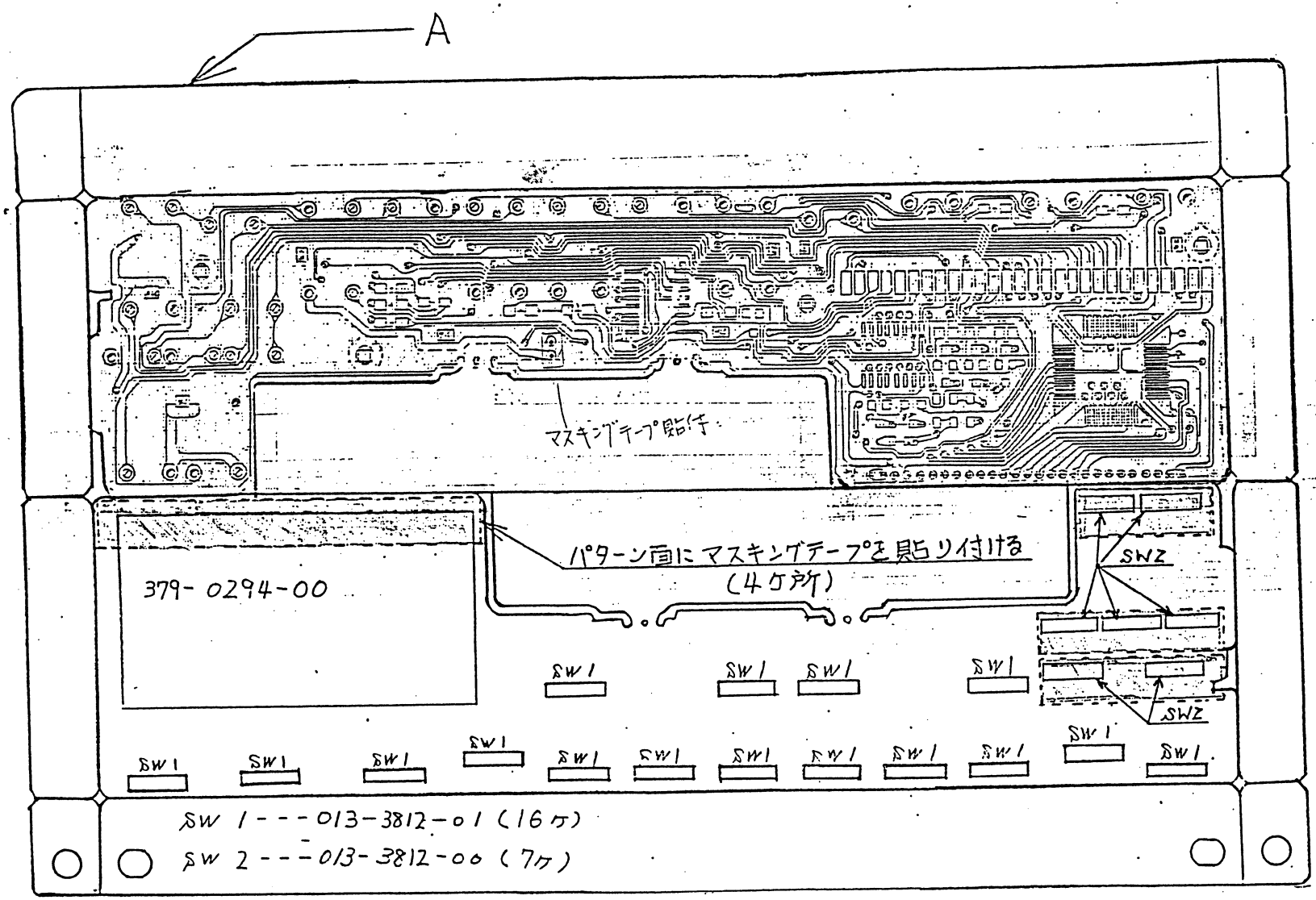
IMPORTANT
Improper installation may cause damage to your Unit or car. If you do not have appropriate experience, use a qualified installer. Custom chassis leads voids warranty.

TYPICAL CONNECTION/CABLAGE TYPIQUE/ TYPISCHES ANSCHLUSSBEISPIEL



SWITCH P.W.B

〔作業基準書〕



フラックスはけ塗り
↓
SW全部はける

使用部品名	備考
A SW-A-PWBA ※153-5533-09	1

使用工具
- ディップ装置
- マスキングテープ
- ハンダ付け一式
- 保護シート
- アルコール
- FIG-7参照(153-5533-50A)

符号	年月日	改正記事	実施ロット	構成No	確認
△					
△					
△					
△					

作業手順 (4ケ所)
前プロエー - - パターン面にマスキングテープを貼り付け
デ付けー - ・SW1を取付け
・ディップ注入ダ付け
・マスキングテープをはがす
取付け2作業ミ
SW2を取付ける

注意事項
・SWは、全て注意すること

使用生産性対策機

作業名称	機種名	工程区分	作業時間No分	製図	検図	担当	承認	作成年月日	図番
P.W.B カー	05 [illegible] A							89年 9月 30日	[illegible]

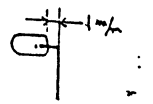
クラリオン株式会社

[作業基準書]

後付け・後加工

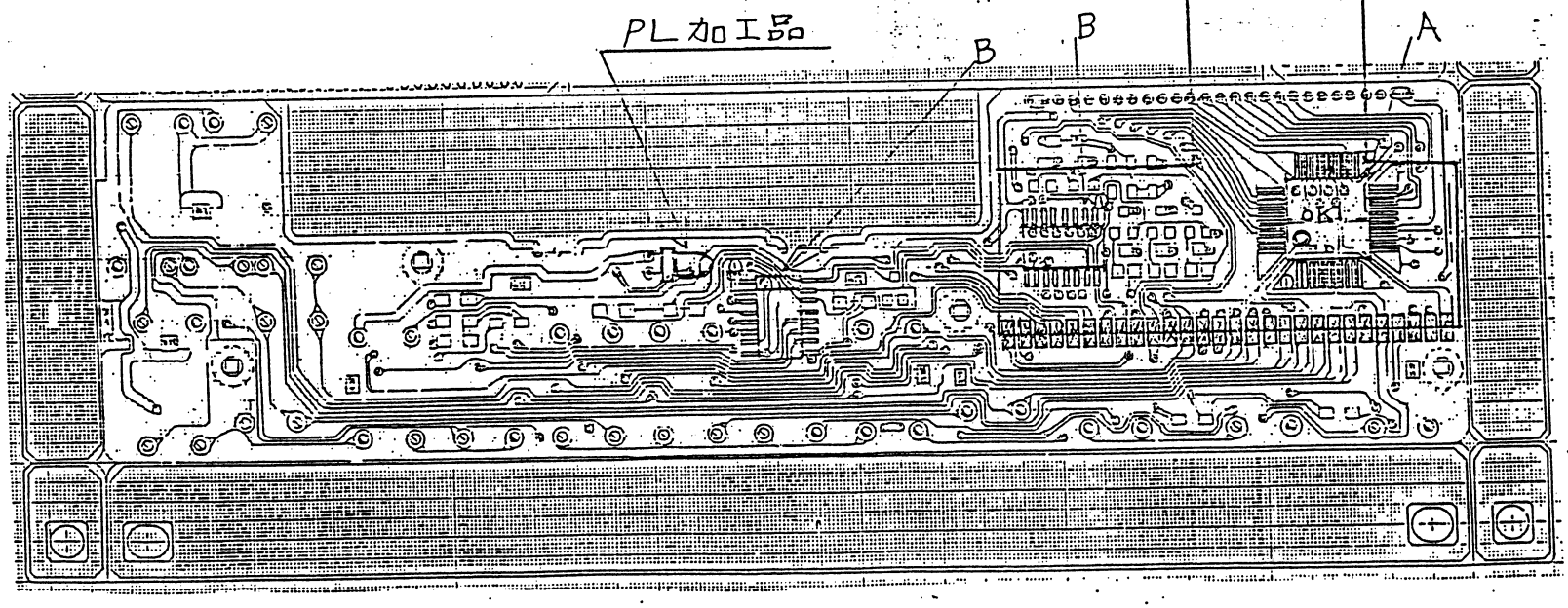
- ミニモードIC（2ケ）→ はんだ付け後、洗浄する
- フラットパッケージIC（1ケ）
- PLランプにラバーパーツをかぶせる
- PL加工品をパターン面より寝かせて挿入、はんだ付け

(注) PLランプ フォーミング



- フレキ利用付－－－フレキの両面テープ部をはがしPWBに貼り付ける → シルクの貼付位置に合わせる、はんだ付け（28ケアケ）
- インジケータ(379)に保護シートを貼る

099-8947-00

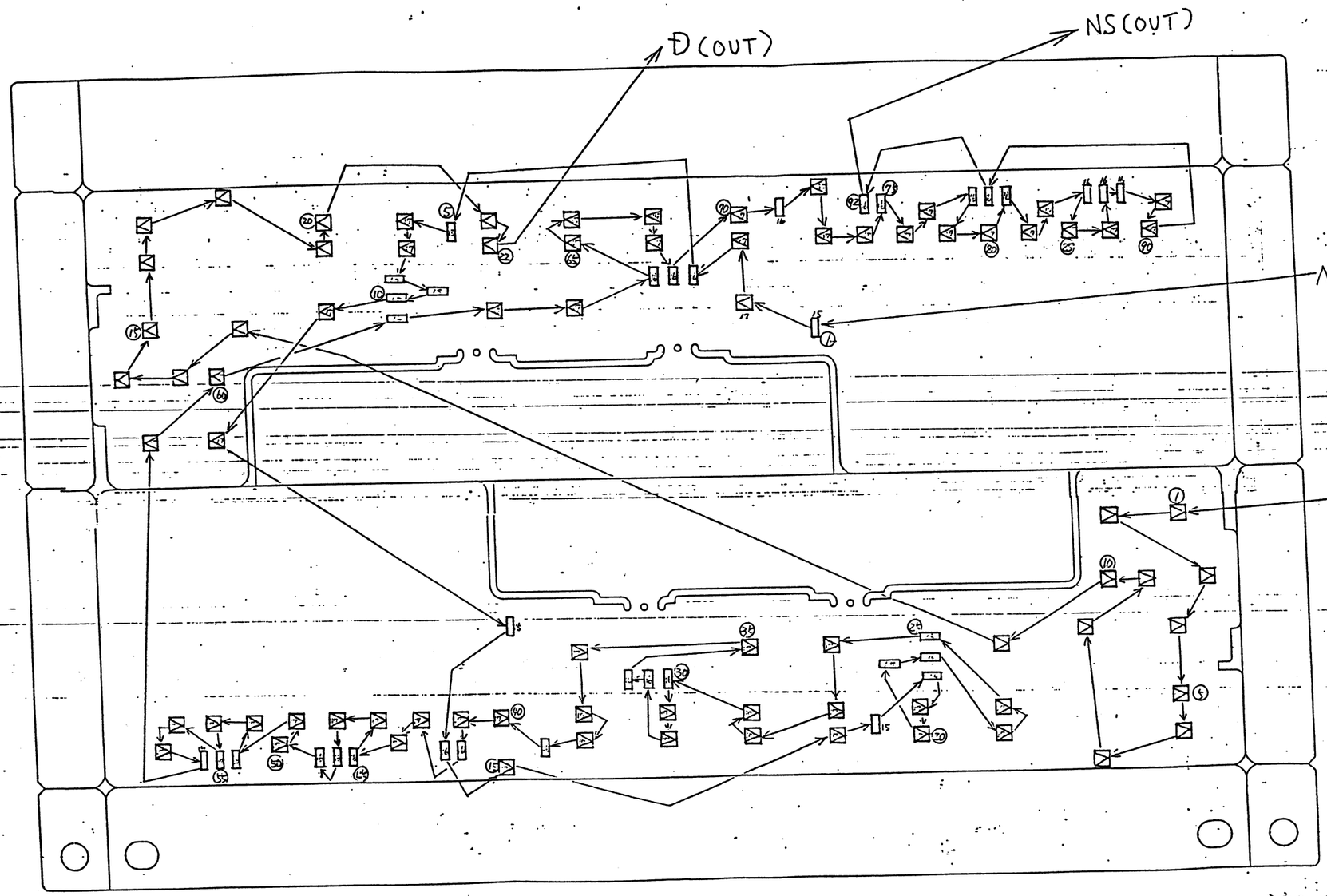


使用部品名	個数
A IC(MSC7112)051-1198-05	1
B IC(MB88307)051-1345-05	2

使用治工具
はんだ付け工具一式
EIP-フレキ利用付ミジグPE-5533-S02A

符号	年月日	改正記事	実施ロット	図変No	確認
△					
△					
△					
△					

作業名称：後加工
機種名：PE—5533B—A
工程区分：—
作業時間 分
クラリオン株式会社
製図 校敷 / 検図 担当 斜原 / 承認 加藤
作成年月日 89年 9月 30日
図番 53—5533—C7—02



C-NO	PARTS CODE	NO	P
001	- -		
002	- -		
003	- -		
004	- -		
005	- -		
006	- -		
007	- -		
008	- -		
009	- -		
010	- -		
011	- -		
012	- -		
013	- -		
014	- -		
015	116-6811-10	6	
016	116-1521-10	30	
017	001-0518-04	56	8ヶエンズ, AA101W
018	- -		
019	- -		
020	- -		
021	- -		
022	- -		
023	- -		
024	- -		
025	- -		
026	- -		
027	- -		
028	- -		
029	- -		
030	- -		
101	001-0518-04	22	8ヶエンズ, AA101W
102	- -		
103	- -		
104	- -		
105	- -		
106	- -		
107	- -		
108	- -		
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126	- -		
127	- -		
128	- -		
129	- -		
130	- -		
201	- -		
211	- -		
221	- -		
223	- -		
225	- -		
227	- -		
229	- -		

(注) CHip LED (001-0518-)部品ﾏｰｸ

⊠ = ⊠

F0 (NS, D, DV)

承認	作成

改正記事	実施ロット	現実No	備考
△			
△			
△			
△			

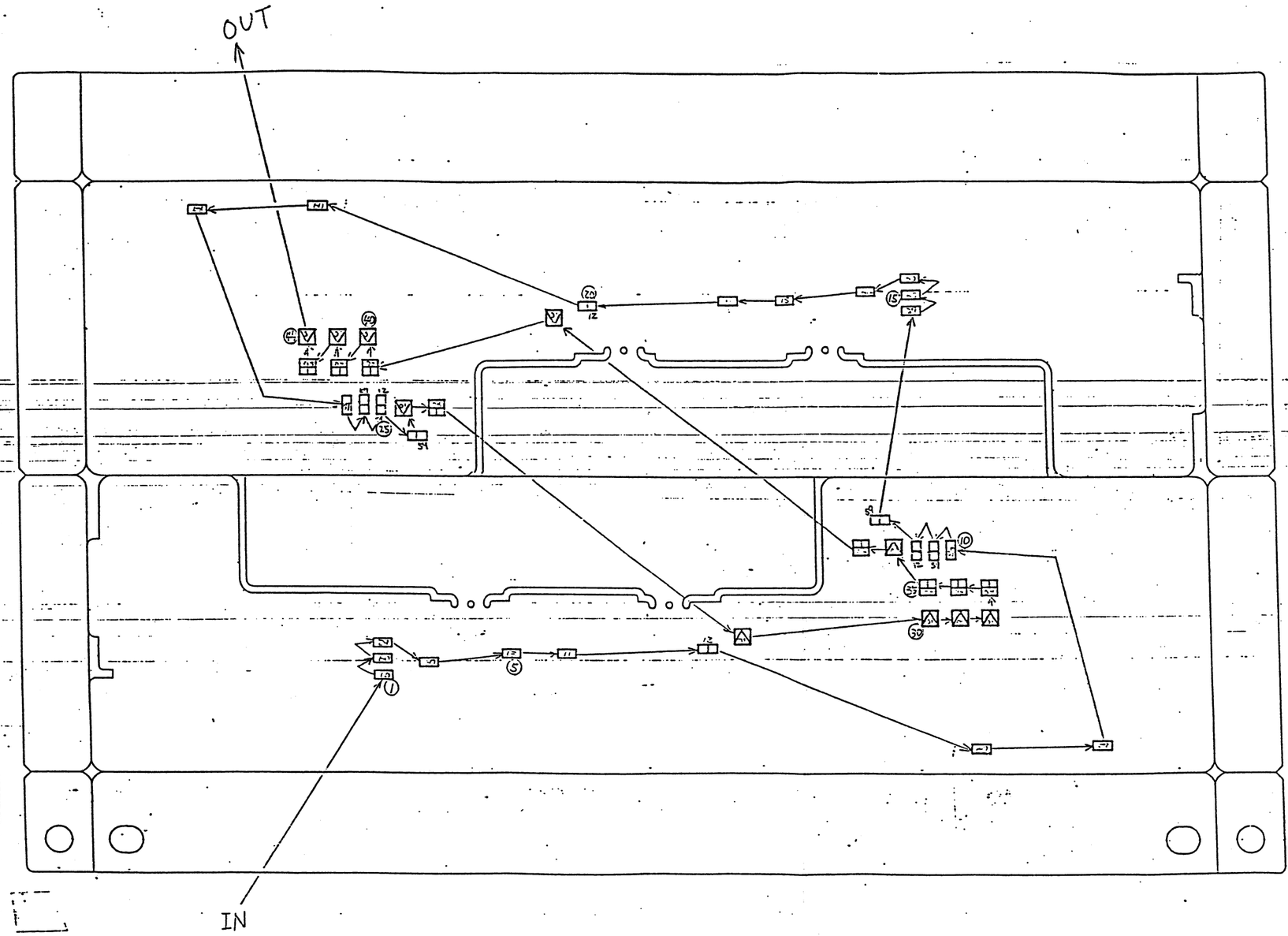
作業名称: INSERTION F0

機種名: PE-5533B-A

クラリオン株式会社

作成年月日 ﾍｲｾｲ 1年 9月 3日

図番 53-5533-100-



C-NO	PARTS CODE	NO	P
001	001-0356-91	10	
002	125-2005-92		
003	125-0002-07	8	
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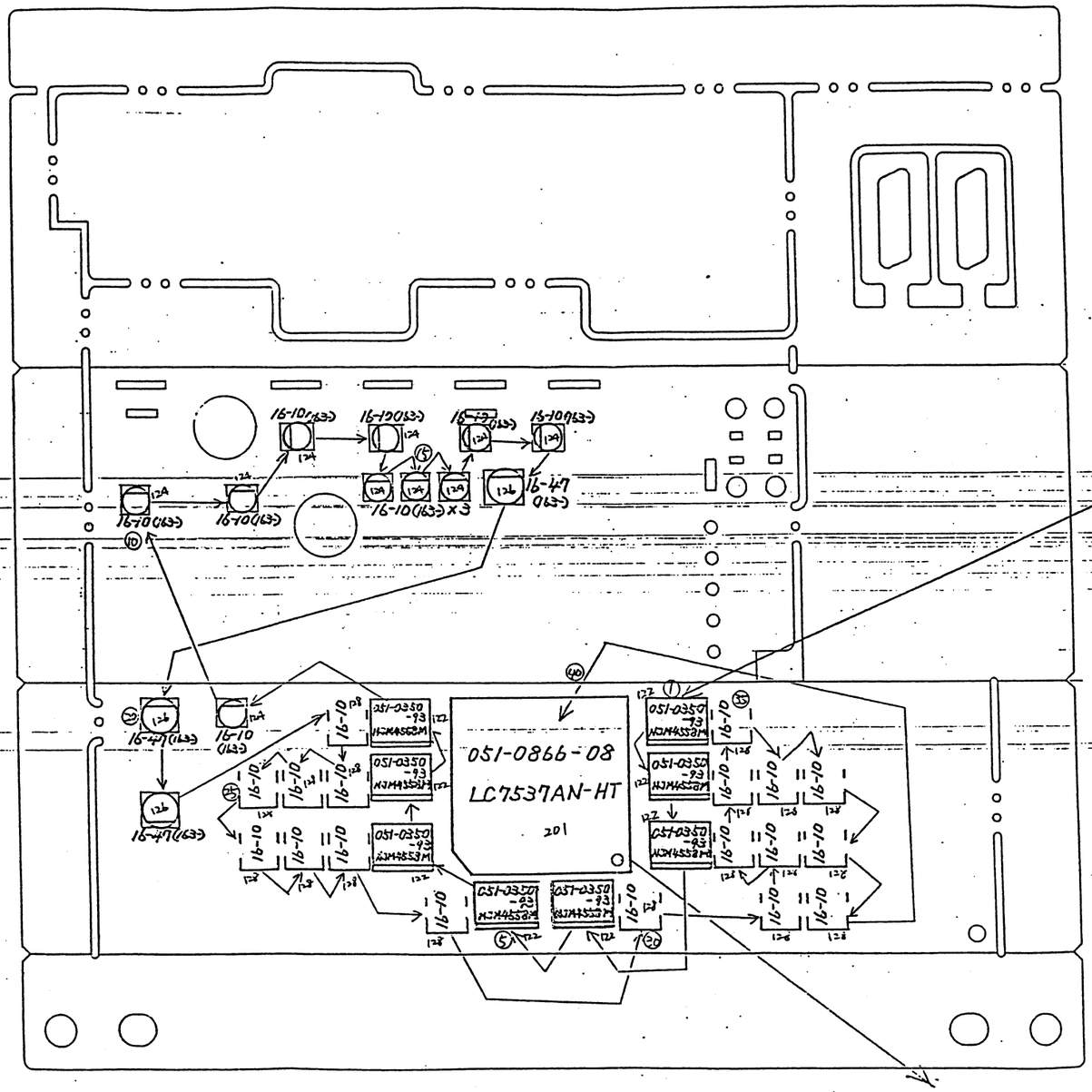
005	- -		
006	- -		
007	- -		
008	- -		
009	- -		
010	- -		
011	116-1031-15	7	
012	177-1032-55	4	
013	116-1021-15		
014	116-2231-15		
015	116-1041-15	2	
016	116-3321-15		
017	116-3331-15		
018	177-2232-55		
019	116-4721-15		
020	116-0000-05		
021	177-1045-56		
022	116-2221-15		
023	116-3921-15		
024	116-1231-15		
025	177-2245-56		
026	116-5621-15		
027	177-4732-55		
028	175-1007-50		
029	116-4711-15	2	
030	116-1531-15		
031	177-4722-55		
032	177-3332-55		
033	116-1011-15		
034	177-2222-55		
035	175-2201-50		
036	177-6822-55		
037	116-4731-15	2	
038	116-5631-15		
039	116-2241-15		
040	116-6821-15		
041	- -		
042	- -		
043	- -		
044	- -		
045	- -		
046	- -		
047	- -		
048	- -		
049	- -		
050	- -		
051	- -		
052	- -		
053	- -		
054	- -		
055	- -		
056	- -		
057	175-1012-50	2	
058	116-2211-15	2	
059	177-2224-55	2	
060	116-5811-15	2	

承認	年月日	改正記事	実施ロット	検査No.	備考
△					
△					
△					
△					

作業名称	機種名	工程区分	作業時間 M/分	作成者	作図	作図	担当	承認	作成年月日	図番
INSERTION C1	PE-5533B-A	—	.DM	クラリオン株式会社	立澤	青木	立澤		1年 9月 28日	53-5533-C9

FAMILY P.W.B



C-NO	PARTS CODE	NO	P	
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003	- -			
004	- -			
005	- -			
006	- -			
007	- -			
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011	- -			
012	- -			
013	- -			
014	- -			
015	- -			
016	- -			
017	- -			
018	- -			
019	- -			
020	- -			
021	- -			
022	- -			
023	- -			
024	- -			
025	- -			
026	- -			
027	- -			
028	- -			
029	- -			
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115	- -			
116	- -			
117	- -			
118	- -			
119	- -			
120	- -			
121	- -			
122	051-0350-93	8		12mm
123	- -			
124	163-1069-35	10		12mm
125	- -			
126	163-4763-35	3		16mm
127	- -			
128	164-1069-35	18		12mm
129	- -			
130	- -			
201	051-0866-06	1	0	HL-
211	- -			
221	- -			
223	- -			
225	- -			
227	- -			
229	- -			

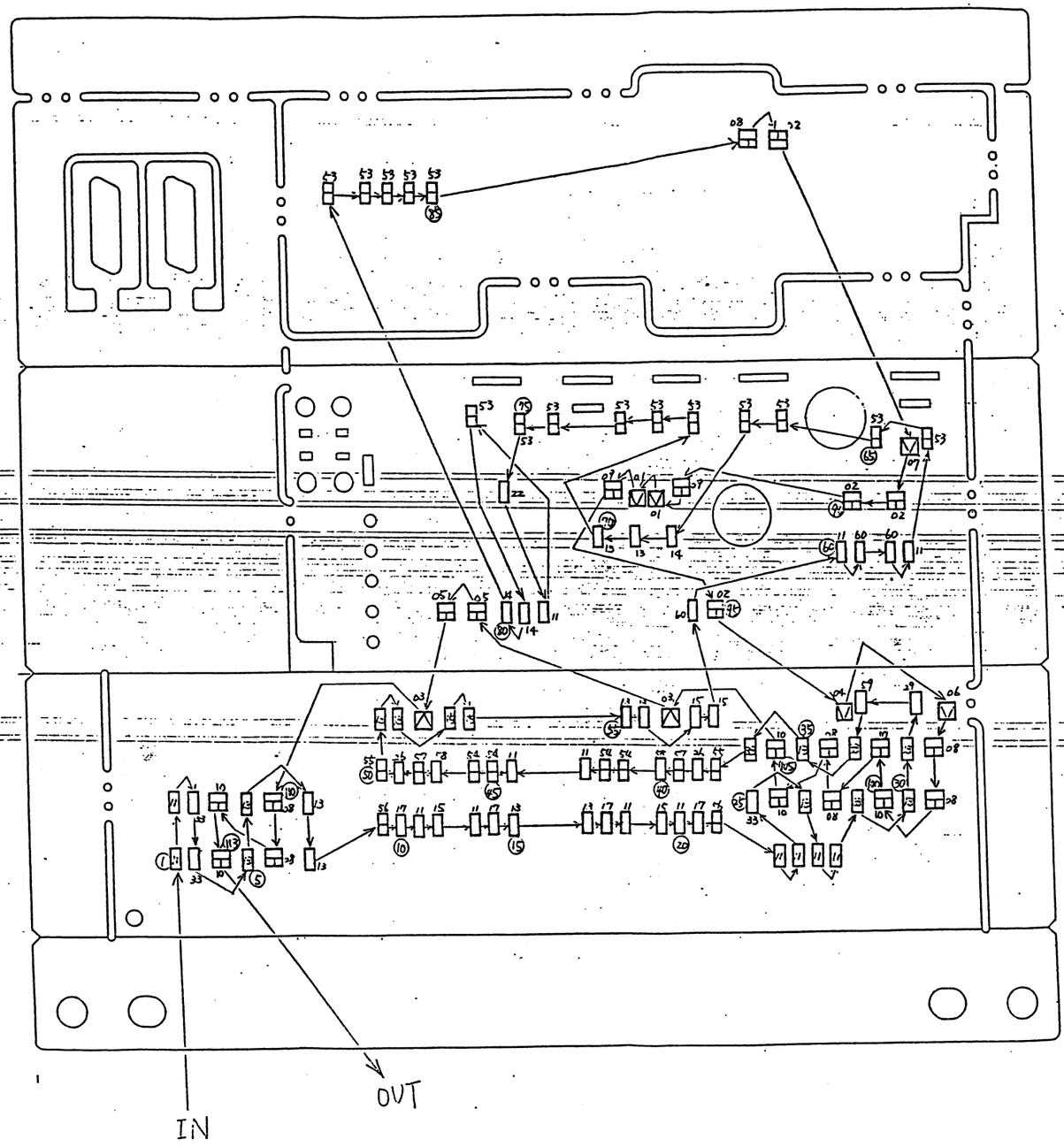
CX4

(注)① CHIP アルミ(164-)の実装方向

② CHIP アルミ(164-)タイプ
はボード当市後装着する.

FO (NS,D,DV)

				DWG	近藤	CAL WT(g)	MATERIAL	NAME	INSERTION FC
				DSGN	近藤				
				CHK	上野	ACT WT(g)	FINISH	DWG NO.	53-5533-B9-0
SYM	DATE	DSGN	REVISION	APPR					
MODEL	PE-5533B-A	DATE		APPR			SCALE		Clarion Co.,Ltd
							UNIT MM TOL		



C-NO	PARTS CODE	NO	P
001	001-0529-48	2	
002	125-2003-93	4	
003	001-0367-91	2	
004	001-0529-29	1	
005	193-2712-001	2	
006	001-0529-59	1	
007	001-0529-76	1	
008	125-0002-93	7	
009	125-2004-92	2	
010	193-1306-001	6	
011	116-1031-15	15	
012	177-1032-55		
013	116-1021-15	16	
014	116-2231-15	3	
015	116-1041-15	6	
016	116-3321-15		
017	116-3331-15	4	
018	177-2232-55		
019	116-4721-15		
020	116-0000-05		
021	177-1045-55		
022	116-2221-15	1	
023	116-3921-15		
024	116-1231-15		
025	177-2245-55		
026	116-5621-15	2	
027	177-4732-55		
028	175-1007-50		
029	116-4711-15	1	
030	116-1531-15		
031	177-4722-55		
032	177-3332-55		
033	116-1011-15	6	
034	177-2222-55		
035	175-2201-50		
036	177-6822-55		
037	116-4731-15		
038	116-5631-15		
039	116-2241-15		
040	116-6821-15		
041	- -		
042	- -		
043	- -		
044	- -		
045	- -		
046	- -		
047	- -		
048	- -		
049	- -		
050	- -		
051	- -		
052	- -		
053	043-0224-53	15	
054	043-0224-52	4	
055	177-3422-55	2	
056	175-4701-50	2	
057	175-3701-50	2	
058	116-2221-15	2	
059	116-5611-15	1	
060	116-1221-15	3	

MA2091
RN1403
1SS225
MA2051
2SC1815
MA2130
MA8220
RN1405
RN1402
2SD1305

0.1
0.022
0.003
47P
27P

SYM	DATE	DSGN	REVISION	APPR

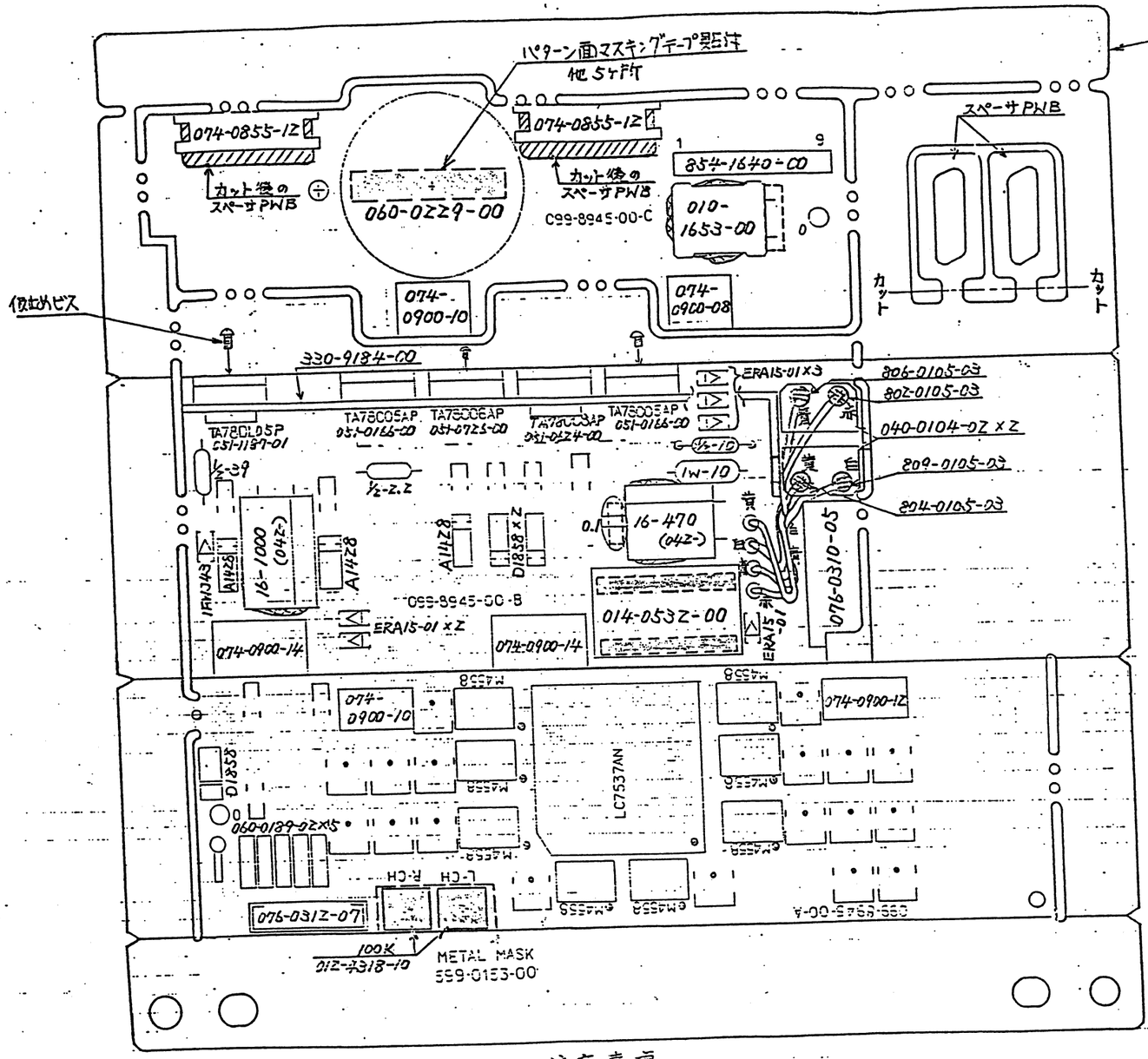
DWG 近藤
DSGN 近藤
CHK 上野
APPR

MODEL PE-5533B-A
DATE

CAL WT(g)
ACT WT(g)
MATERIAL
FINISH
SCALE
UNIT MM TOL

NAME INSERTION C I
DWG NO. 53-5533-89-04

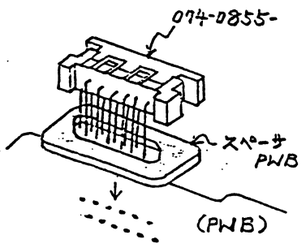
Clarion Co., Ltd.



53-5533-B9
G-FA-A-PWB-ASSY

前加工

- PWBパターン面にマスキングテープ貼付け(計6ヶ所)



先付け

- スペーサPWBをカット後、アウトレットソケット(074-0855-)と共にPWBに挿入する。仮はんだ付け、各12ヶ所。

- アウトレットソケット(074-)　・プラグ(076-0312-)　・EXリード(254-)　} 仮はんだ各2本
- アラグ(076-0310-) --- 仮はんだ1ヶ所
- IC(5ヶ)のうち、3ヶをアレストパーツに、仮ビス止め(M3×5)1使用
  プレストパーツは水曲ざ3ヶ所　・フィルターAssy(040-)は足ひかる
- その他、全ての部品

デイップはんだ付けを行なう

マスキングテープを全てはがす

PWBを水洗い洗浄する

後付け

- VR(012-)　・ブザー(060-)　・リレー(014-)　・コイル(010-)
- マイラーC(0.1)

後加工

- ICの仮止めビスをはずす。
- フィルターAssyの貫通コンにビニールコーデッドワイヤをベタはんだ付けする(4本)、その後、リレーとプラグの間にリード処理する。

- ボンド付け … コイル(1mH)、電解C(16-470, 16-1000)

- 3端子ICの足に、はんだ盛りする。(計15ヶ所)

使用治工具

- ディップはんだ付け装置
- はんだ付け工具一式
- マスキングテープ　・アルコール
- (+)ドライバ　・ニッパ

注意事項

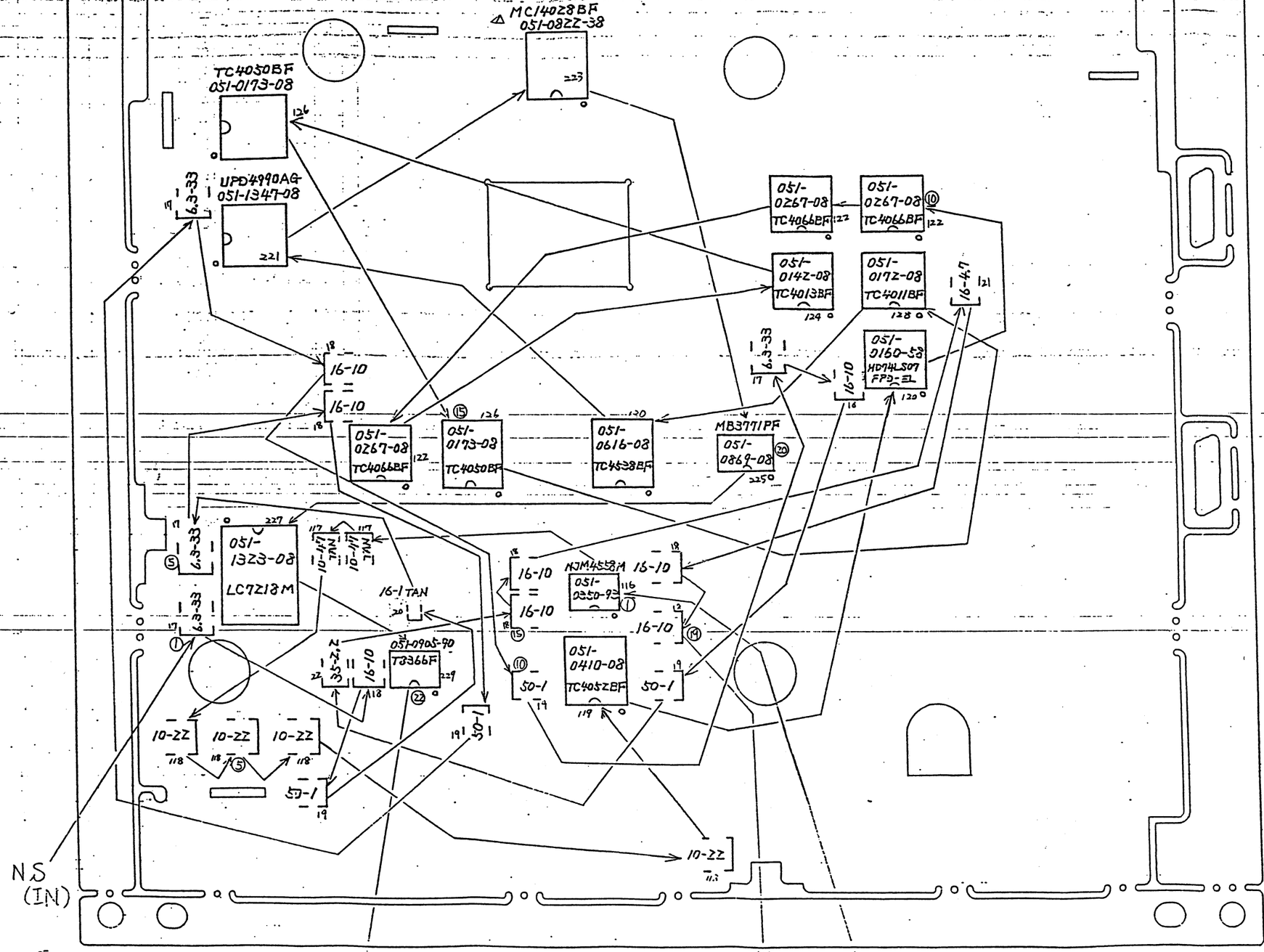
代替

- ERA15-01 (001-0479-00) → ぶらざ8B (001-0466-00)

設計	年月日	改正記事	実施ロット	現NO	確認
△	・・				
△	・・				
△	・・				
△	・・				

作成名称	機種名	工程区分	作業時間No.分	クラリオン株式会社	担当	係	課	部	長	作成年月日	図番
PWB加工	PE-5533B-A	—	.DM		油原	出口	五味			59年 10月 16日	53-5533-B7

MOTHER P.W.B

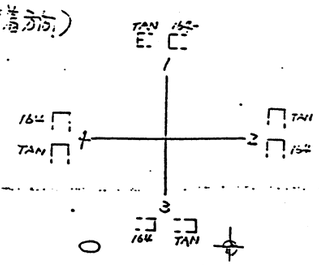


C-NO	PARTS CODE	NO	P
001	- -		
002	- -		
003	- -		
004	- -		
005	- -		
006	- -		
007	- -		
008	- -		
009	- -		
010	- -		
011	- -		
012	- -		
013	- -		
014	- -		
015	- -		
016	- -		
017	164-3363-15	4	
018	164-1063-35	8	
019	164-1053-65	4	
020	042-0397-50	1	
021	164-4753-35	1	
022	164-2259-55	1	
023	- -		
024	- -		
025	- -		
026	- -		
027	- -		
028	- -		
029	- -		
030	- -		
101	- -		
102	- -		
103	- -		
104	- -		
105	- -		
106	- -		
107	- -		
108	- -		
109	- -		
110	- -		
111	- -		
112	- -		
113	- -		
114	- -		
115	- -		
116	051-0350-93	1	
117	042-0427-91	2	
118	164-2263-25	4	
119	051-0410-08	1	
120	051-0160-53	1	
121	- -		
122	051-0267-08	3	
123	- -		
124	051-0142-08	1	
125	- -		
126	051-0173-08	2	
127	- -		
128	051-0172-08	1	
129	- -		
130	051-0616-08	1	
201	- -		
211	- -		
221	051-1347-08	1	
△223	051-0822-38	1	
225	051-0267-08	1	
227	051-1323-08	1	
229	051-0905-90	1	

CX-4040

FO (NS, D, DV)

手(装着方向)



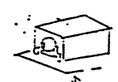
△						
△						
△						
△	41・10・14	8ヨミフ保ホゴにともない部品番号変更	39.12	910025	kcm	
設計	年月日	改正記事	実験ロット	検査No	検印	

作成名称	INSERTION FO	機種名	PE-5533B-A	工程区分	作業時間 分
クラリオン株式会社					

設計 作図 検図 承認 作成年月日 H 1年 10月 4日

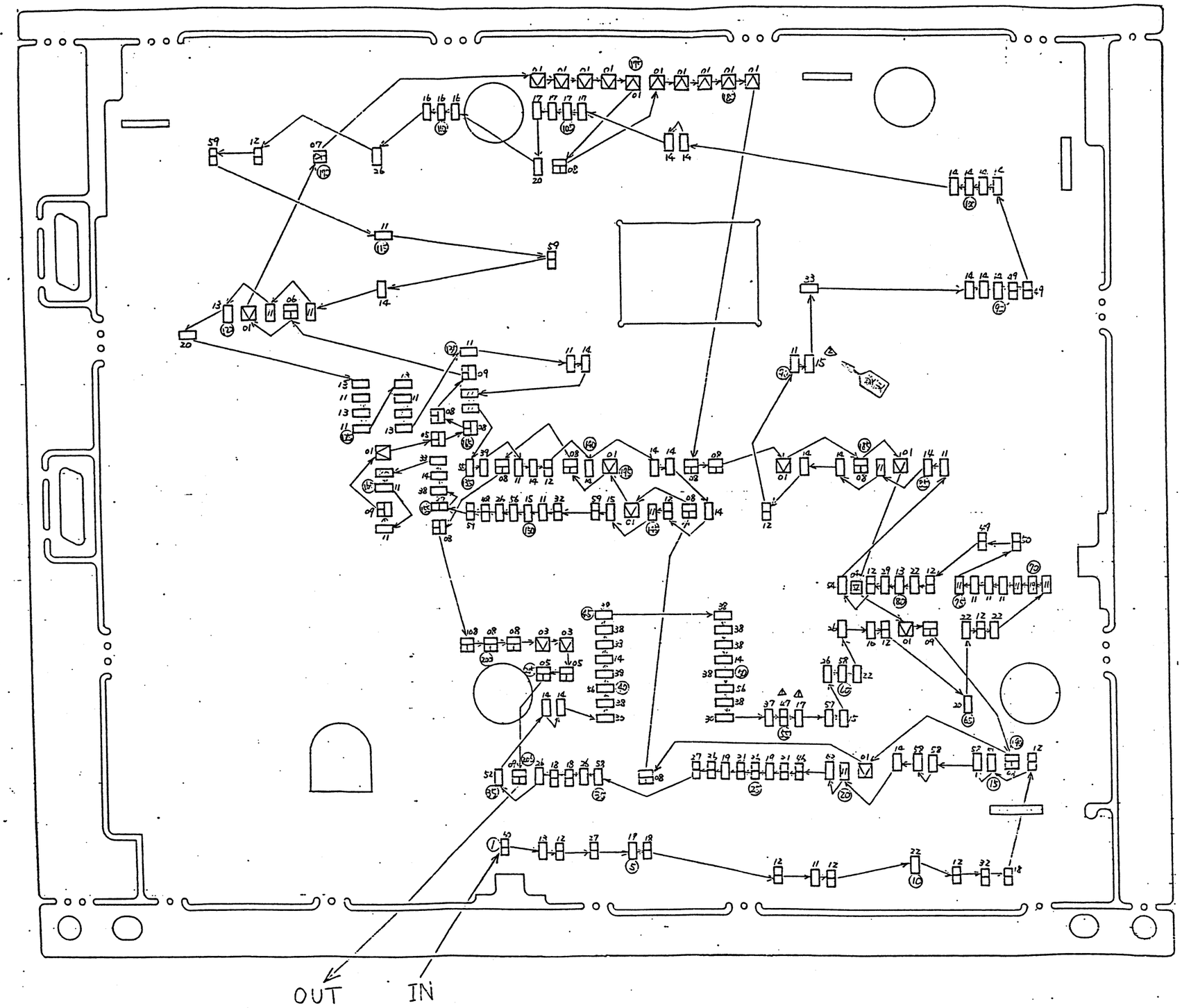
図番 53-5533-A9-(

(注) ① ルミCHIP電解C(164-)タイプはホンド含市販装着する。



② ルミCHIP電解C(164-)タイプはホンド含市販装着する。

直径仕様



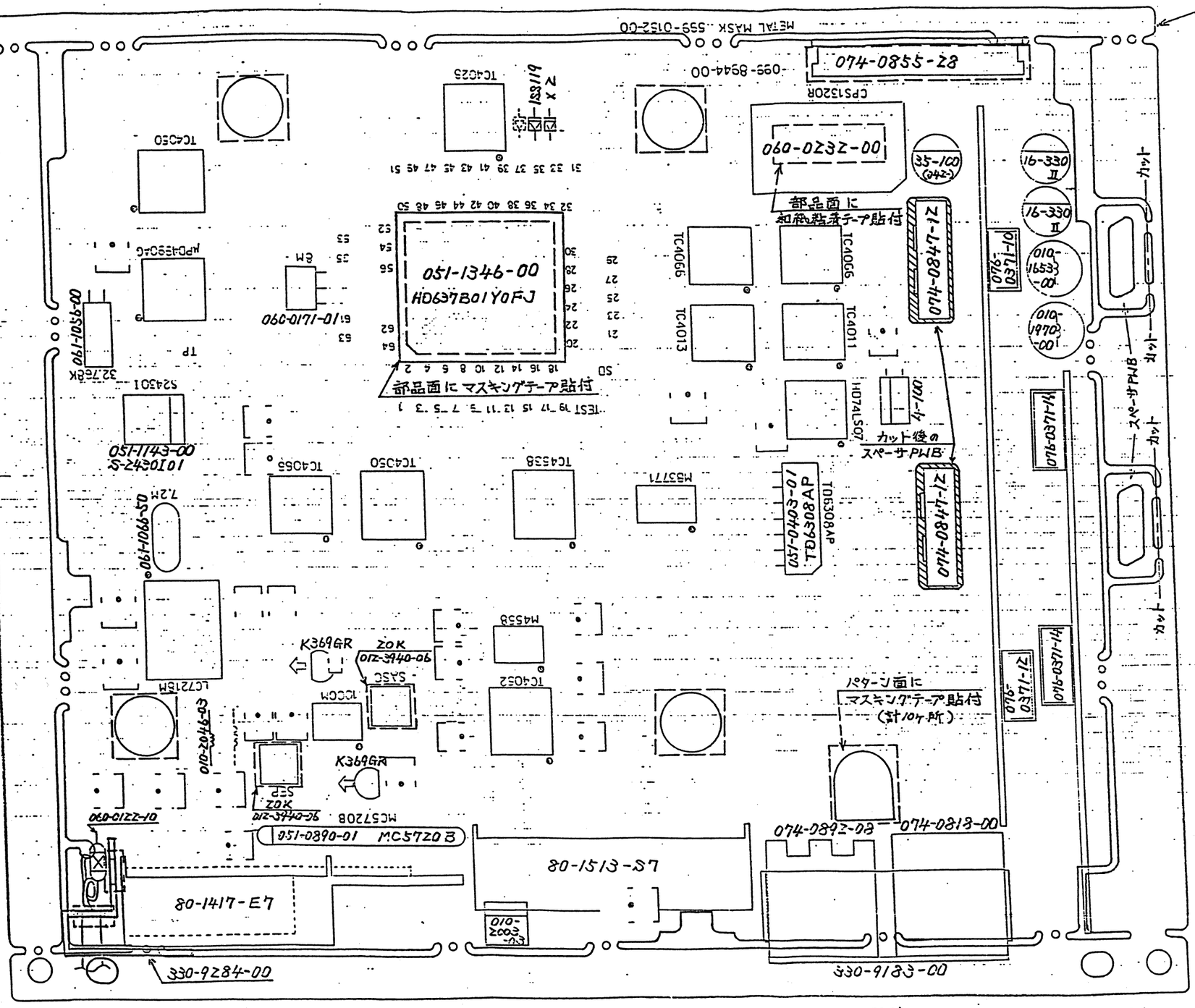
C-NO	PARTS CODE	NO	P
001	001-0356-91	18	
002	125-2005-92		
003	001-0354-96	2	
004	001-0524-68	1	
005	125-0002-93	3	
006	125-2002-92	1	
007	001-0524-19	1	
008	125-2004-03	15	
009	192-2712-00	4	
010	- -		
011	116-1031-15	27	
012	177-1032-55	13	
013	116-1021-15	7	
014	116-2231-15	25	
015	116-1041-15	4	
016	116-3321-15	2	
017	116-3331-15	5	
018	177-2232-55	4	
019	116-4721-15	4	
020	116-0000-05	-	
021	177-1045-55		
022	116-2221-15	5	
023	116-3921-15		
024	116-1231-15		
025	177-2245-55		
026	116-5621-15	7	
027	177-4732-55	3	
028	175-1007-50		
029	116-4711-15	1	
030	116-1531-15	2	
031	177-4722-55	2	
032	177-3332-55	2	
033	116-1011-15	2	
034	177-2222-55		
035	175-2201-50		
036	177-6822-55	2	
037	116-4731-15	1	
038	116-5631-15	11	
039	116-2241-15	1	
040	116-6821-15		
041	- -		
042	- -		
043	- -		
044	- -		
045	- -		
046	177-6422-55	1	
047	177-2212-55	1	
048	177-1022-55	1	
049	175-1801-50	3	
050	175-1201-50	1	
051	116-8221-15	1	
052	116-8321-15	1	
053	116-3931-15	1	
054	116-3311-15	1	
055	116-3731-15	1	
056	116-1541-15	3	
057	116-1241-15	1	
058	116-1001-15	5	
059	043-0229-55	4	
060	043-0223-55	1	

△	・・					
△	・・					
△	89・11・10	22K→100K	Y11003～	911071	正面	
△	89・10・18	27K→33K 330PF→220PF	Y11003～	910141	正面	
訂正	年月日	改正記事	有効ロット	検査No	班	組

作成名称 INSERTION C1	機種名 PE-5533B-A	区分 —	作業時間 .DM	クラリオン株式会社	担当 設計 係 主任 / 作成年月日 H 1年 10月 3日 / 図番 53-5533-A9-0

差替 1993 11 17 自動生技

53-5533-A9
G-MATH-A-PWB-Assy

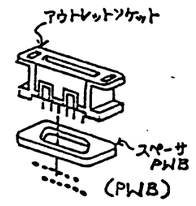


前加工

部品
- パターン面にマスキングテープ貼付け(11ヶ所)
- 部品面に和紙粘着テープ貼付け
- 寄せ部品フォーミング

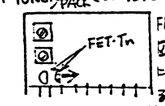
先付け

- スペーサーPWBをカット後
  アウトレットソケット(074-0847-)と
  PWBへ差し込む.(各2ヶ)
  仮はんだ付け(各12ヶ所)



- プラグ(076-)…全ての足を仮はんだ付けする。
- アウトレットソケット(074-0892-, -0813-)…仮はんだ各3ヶ所
- その他全ての部品.

(注) AM TUNER PACK (80-1513)取付前に
FET-Tmを図中矢印方向に
引き抜き取り外すこと。
(フィルムの接触防止)



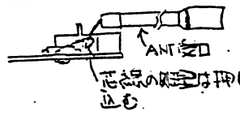
ディップはんだ付けを行う
マスキングテープを剥し、アルコールにて拭く

後付け

- フラットパッケージ(051-1346-)--- 足64本
- VR(012-) ・フレキソケット(074-0855)

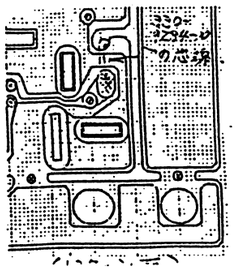
後加工

- 部品面洗浄…SOPタイプIC部
- 330-9284-…足2本、加曲げ径、はんだ付け
  芯線をパターン面にはんだ付け、線材処理



注意事項

- 051-0890-は、当ガリNG.
- 半固定VR(012-)2ヶは、半田付後センター端子は足カットすること.



使用治工具

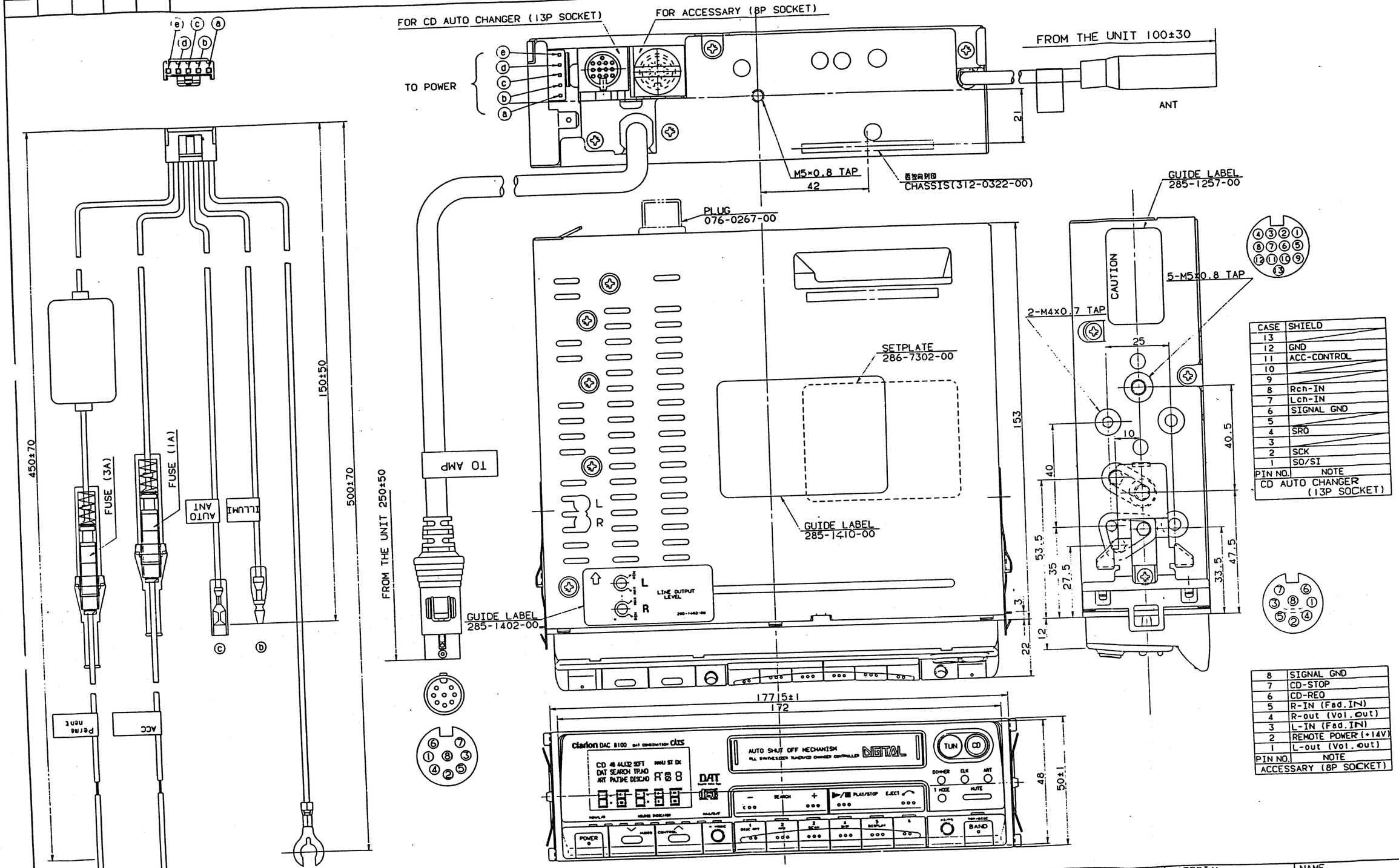
- ディップはんだ付け装置
- アルコール
- はんだ付け工具一式
- ラジオペンチ
- マスキングテープ
- 和紙粘着テープ
- ニッパ

付替 ・ 1-183-117-00 → 1-183-176-00

記号	年月日	改正記事	実施ロット	現実No.	確認
△	・・				
△	・・				
△	・・				
△	・・				

作業名	機種名	工程区分	作業時間 M/m分							
PWB加工	PE-5533B-A	—	.DM	クラリオン株式会社	設計	検図	担当	承認	作成年月日	89年 10月 9日
					油魚	出口	近藤		図番	53-5533-170-0

DWG NO. PE-5533B-A-AA



CASE	SHIELD
13	
12	GND
11	ACC-CONTROL
10	
9	
8	Rch-IN
7	Lch-IN
6	SIGNAL GND
5	
4	SRO
3	
2	SCK
1	SO/SI
PIN NO.	NOTE
CD AUTO CHANGER (13P SOCKET)	

8	SIGNAL GND
7	CD-STOP
6	CD-REQ
5	R-IN (Fad.IN)
4	R-out (Vol.out)
3	L-IN (Fad.IN)
2	REMOTE POWER (+14V)
1	L-out (Vol.out)
PIN NO.	NOTE
ACCESSARY (8P SOCKET)	

e	BACK UP	RED
d	ACC	BLUE
c	AUTO ANT	BLUE/YELLOW
b	ILLUMI	RED/WHITE
a	GND	BLACK
PIN NO.	NOTE	COLOR
POWER (5P)		

8	REMOTE POWER
7	
6	
5	F-R
4	R-R
3	F-L
2	SIGNAL GND
1	R-L
PIN NO.	NOTE
LIN OUT (8P PLUG)	

VF	COLOR	WHITE
ILLUMI	COLOR	ORANGE

SYM	DATE	DSGN	REVISION	APPR
3				
2				
1				

MODEL PE-5533B-A(E) DATE 890905

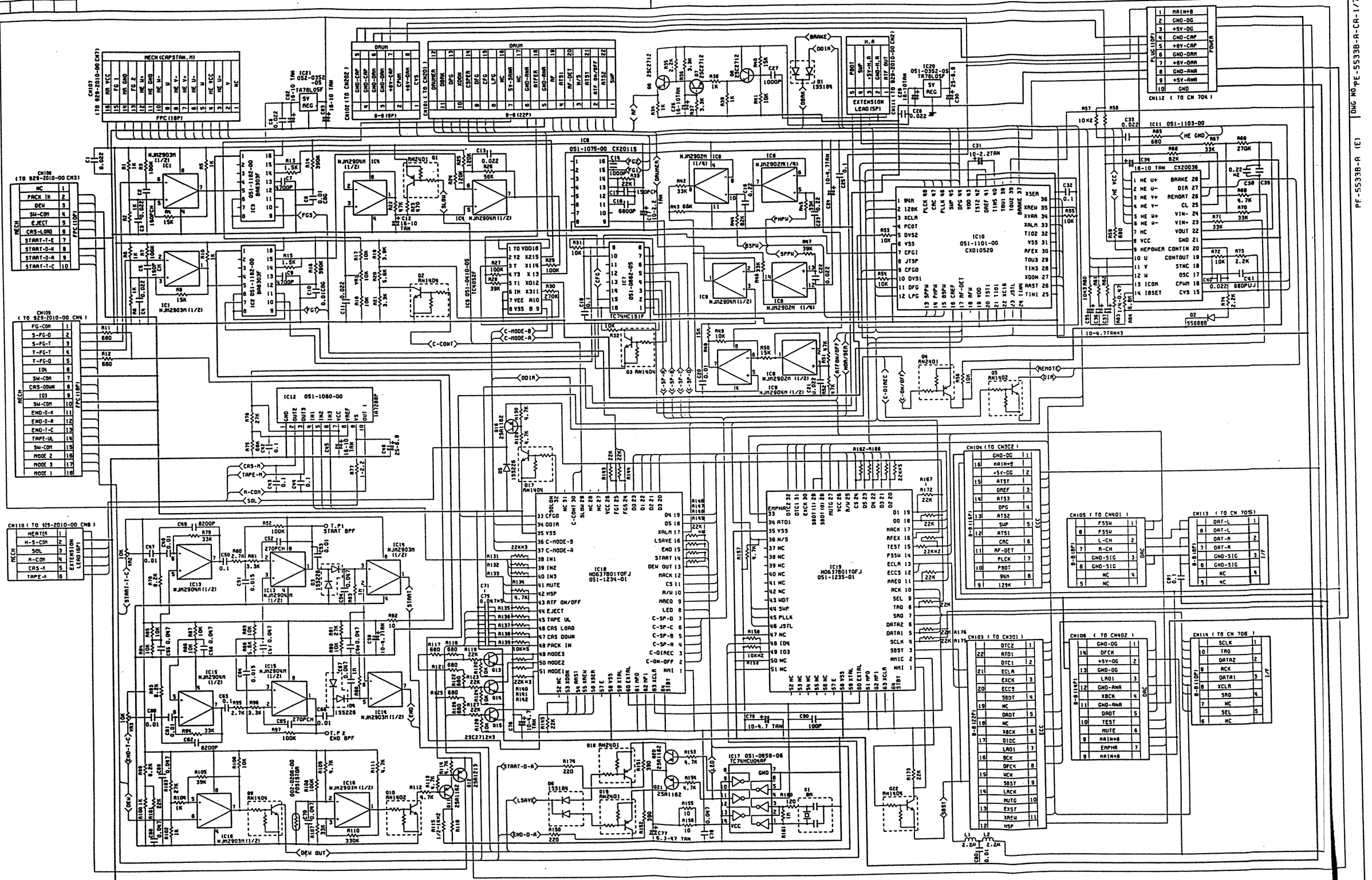
DWG 87 7.1
DSGN 89 9.4
CHK 89 9.4
APPR 89 9.9

CAL WT
ACT WT
MATERIAL
FINISH
SCALE 1/1
UNIT MM TOL

NAME OUT SIDE VIEW
DWG.NO PE-5533B-A-AA

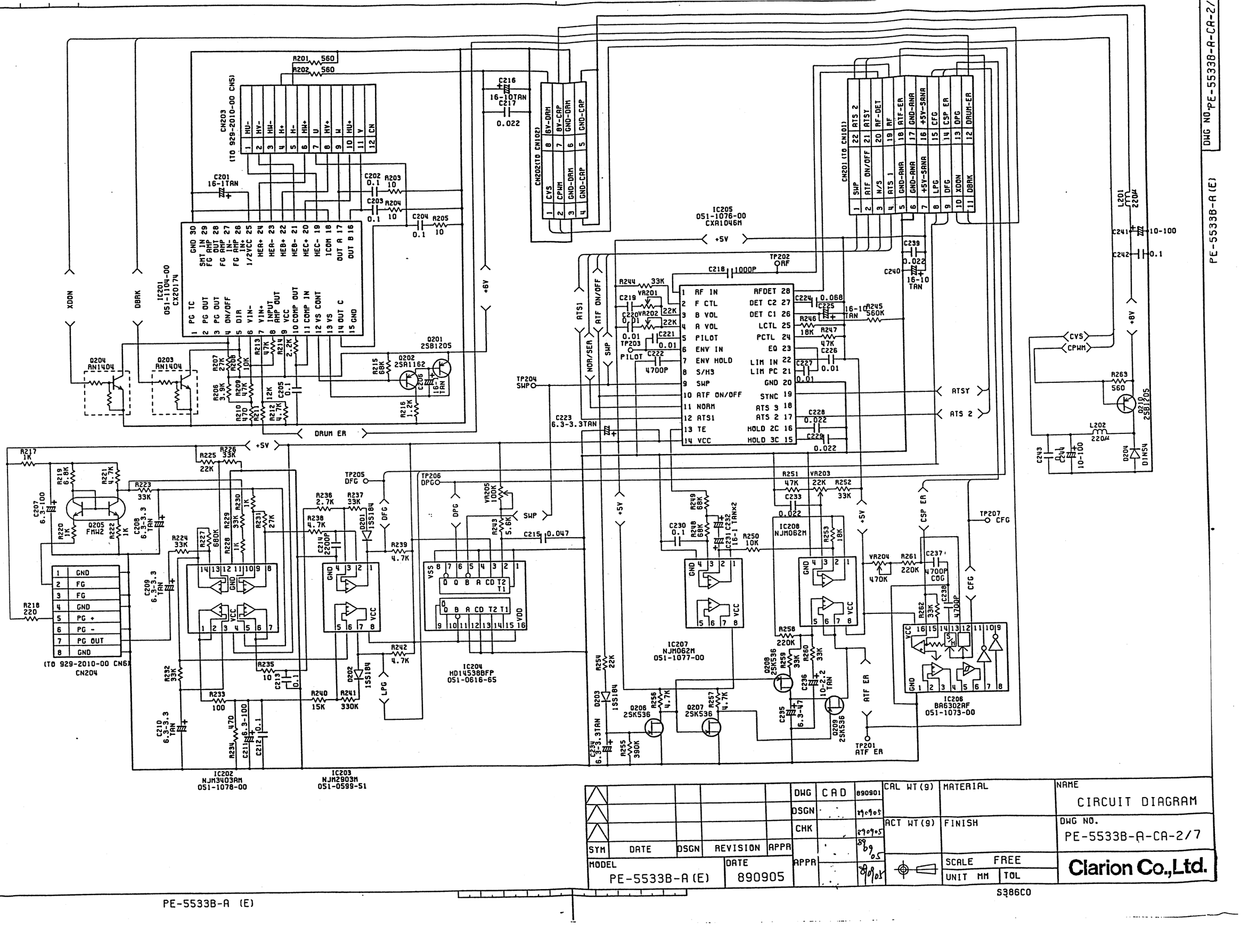
Clarion Co.,Ltd.

西独向刻印 MODEL
ID NO. CL0032 .....



						DWG	CAD	890901	CAL WT(g)	MATERIAL	NAME CIRCUIT DIAGRAM
						DSGN					
						CHK			ACT WT(g)	FINISH	DWG NO. PE-5533B-A-CI — 1/7
SYM	DATE	DSGN	REVISION		APPR						
MODEL PE-5533B-A (E)			DATE 890905			APPR			SCALE FREE		Clarion Co,Ltd.
									UNIT MM	TOL	

PF-5533B-A (E) DWG NO PE-5533B-A-CA-1/7



PE-5533B-A (E)

DWG NO PE-5533B-A-CA-2/7

SYM	DATE	DSGN	REVISION	APPR	DWG	CAD	890901	CAL WT(g)	MATERIAL	NAME	CIRCUIT DIAGRAM
					DSGN		89.09.05	ACT WT(g)	FINISH	DWG NO.	PE-5533B-A-CA-2/7
					CHK		89.09.05				
					APPR		89.09.05		SCALE FREE		Clarion Co.,Ltd.
MODEL PE-5533B-A(E)			DATE 890905						UNIT MM TOL		

S386CO

PE-5533B-A(E) | DWG NO. PE-5533B-A-CA-3/7

IC302 CXD1009 051-1100-00

IC301 CXD1008 051-1099-00

IC303 051-1231-05 HM62256LFPI-12T

IC401 051-1230-00 SAA7320 DAC

IC402 TA78L05F 051-0352-01

IC305(1/2) 051-1096-00 TLC272CPS

IC306(1/2) 051-1077-00 NJM062

IC306 NJM2930L-85 051-1079-00

IC304 051-0482-05 TC4053BF

Q301 RN1403

Q401 2SD1306

Q402 2SD1306

DW01 RA1101P

DW02 RA1101P

FIL301~304 : 060-0193-00

SYM	DATE	DSGN	REVISION	APPR
MODEL	PE-5533B-A(E)	DATE	890905	

DWG	CAD	890901	
DSGN		890905	
CHK		890905	
APPR		890905	
APPR		890905	

CAL WT(g)	MATERIAL	NAME: CIRCUIT DIAGRAM
ACT WT(g)	FINISH	DWG NO. PE-5533B-A-CA-3/7
	SCALE FREE	Clarion Co.,Ltd.
	UNIT MM TOL	

PE-5533B-A(E)

S392C0

DWG NO PE-5533B-A-CA-4/7

80-1417-E7
ANT DX-LO VT OSC +B1 GND IF OUT +B2 AF OUT S-M GND SD IF COUNT

80-1513-S7
ANT GND DX-LO VT OSC +B SD SEN MUTE IF OUT NC AF OUT SD

IC501
MC57208
051-0890-01
VCC IN GND S-M AGC H.C SD ST GND

IC505
NJM4558M
051-0350-55

IC503
TC4052BF
051-0910-05

IC504
LC7218M
051-1323-05

IC502
1000M
051-0905-00

ANT
SUP501 060-0122-10
D10-2003-03
L501 1.76μH
Q501 RN1403
Q502 2SK369
Q503 RN1403
Q504 2C2712
Q505 2SC2712
Q506 2SK369
Q507 RN2403
Q508 RN2403
Q509 RN1403
Q510 RN1403
Q511 RN1403
D501 1SS184
D502 1SS184
D503 MA8091H
D504 1SS181
D505 1SS181
X501 7.2MHz

CN501
1	L-OUT	R-OUT	12
2	L-IN	R-IN	11
3	Ach	MUTE	10
4	Lch	VCC	9
5	SIG GND	R-1/2VCC	8
6	SIG GND	L-1/2VCC	7

(TO CN 707)

CN502
MAIN+B	1	
MAIN+B	2	
D-5V	3	
C-8V	4	
D-6V	5	
A-5V	6	
GND	7	
GND	8	
SIG GND	9	
SIG GND	10	
DAT-R	11	
DAT-L	12	

(TO CN 707)

CN503
8	P-ON+B	TUN+B	7
9	BTT	AM+B	6
10	NC	FM+B	5
11	GND	GND	4
12	A-5V	D-6V	3
13	C-8V	D-5V	2
14	MAIN+B	MAIN+B	1

(TO CN 701)

BATT
MUTE
FM-C
AM-C
DAT-C
CD-C
TO 5/7

ACC 5V
PLL DO
PLL CLK
PLL DI
PLL STB
SD

CD OUT
CD IN
ACC CONT
SRQ
SCK
SO

TO 5/7

TO ACCESSORY
REMOTE
R IN
L IN
SIG GND
L OUT
R OUT
CD OUT
CD IN
ACC CONT
SRQ
SCK
SO
CD R
CD L
CD GND
BATT
GND
TO CD A/C

					DWG	CAD	890831	CAL WT(9)	MATERIAL
					DSGN		89 9.5		
1	890103		R538,539 R517,524		CHK		89 9.5	ACT WT(9)	FINISH
SYM	DATE	DSGN	REVISION	APPR	APPR		89/9/05		SCALE FREE
MODEL	PE-5533B-A (E)		DATE	890905					UNIT MM TOL

NAME CIRCUIT DIAGRAM
DWG NO. PE-5533B-A-CA-4/7
Clarion Co.,Ltd.
S523BO

DWG NO PE-5533B-A-CA-5/

BATT
MUTE
FM-C
AM-C
DAT-C
CD-C
ACC 5V
PLL DO
PLL CLK
PLL DI
PLL STB
SD
CD OUT
CD IN
ACC-CONT
SRQ
SCK
SD

TO-4/7

CN601
1	MUTE	VOL-CE	10
2	NC	VOL-CLK	9
3	NC	VOL-DATA	8
4	GND	GND	7
5	A-14V	A-14V	6

(TO CN710)

CN602
1	SEL
2	GND
3	SRQ
4	BEEP
5	DATA1
6	BATT
7	DATA2
8	NC
9	SCK
10	XCLR
11	TRQ
12	ACK

(TO CN708)

CN603
8	TUN-C	AM-C	7
9	AUDIO-C	FM-C	6
10	P-ON-C	ACC5V-C	5
11	GND	GND	4
12	ILLMI+B	ACC-IN	3
13	VF+B	B/U5V	2
14	P-ON+B	ACC5V	1

(TO CN702)

IC601 MB3771FP 051-0869-01
IC602 TD6308AP 051-0403-01
IC603 TC4066BF 051-0267-05
IC604 S24301 051-1143-00
IC605 051-1347-05 μPD4990AG
IC606 HD6378O1YOFJ 051-1346-00
IC607 TC4538BF 051-0616-05
IC608 TC40288F 051-0822-05
IC609 TC4013BF 051-0142-05
IC610 TC4066BF 051-0267-05
IC611 MD74LS07FP 051-0160-56
IC612 TC4011BF 051-0172-05
IC613 TC4066BF 051-0267-05
MD601 060-0232-00 CPS1320R

IC606 pin list: 1 NMI, 2 NMI-C, 3 D-SET, 4 SCK, 5 SI, 6 SO, 7 ACC-CONT, 8 BUS-CONT, 9 C-SRQ, 10 D-RESET, 11 ACC-IN, 12 D-SEL, 13 D-SRQ, 14 ACK, 15 TRQ, 16 PLL SI, 17 SD, 18 SI, 19 TEST, 20 BEEP, 21 P-ON-C, 22 DAT-C, 23 TUN-C, 24 CD-C, 25 RES INH, 26 VCC, 27 MEMORY SI, 28 CATS, 29 CD REQ, 30 EJECT, 31 K3, 32 K2, 33 K1, 34 KO, 35 VSS, 36 D, 37 C, 38 CLK.SO/B, 39 CLK.SCK/B, 40 I/O LOAD, 41 PLL/VOL SO, 42 PLL CE, 43 PLL/VOL CLK, 44 CLOCK STB, 45 CLOCK OE, 46 CLOCK CS, 47 VFCE, 48 VOL CE, 49 V.C.I SO, 50 V.C.I CLK, 51 MUTE, 52 AUD-C, 53 MEE, 54 CD REH, 55 CD XCLR, 56 WDT, 57 E, 58 VSS, 59 XTAL, 60 EXTAL, 61 MPO, 62 MP1, 63 RES, 64 STY

CN604
1	VEE	17	I/O LOAD
2	VF CE	18	I/O SCK
3	VF DATA	19	ILLMI+B
4	P-ON+B	20	I/O DATA
5	GND	21	ACC 5V
6	VF CLK	22	RESET
7	KS5	23	B/U 5V
8	KS4	24	ACC 14V
9	KS3	25	CATS
10	KS2	26	EJECT
11	KS1	27	F1
12	KSO	28	F2
13	K3		
14	K2		
15	K1		
16	KO		

(TO CN801)

TC4050BF×2 (IC614.615) 051-0173-05

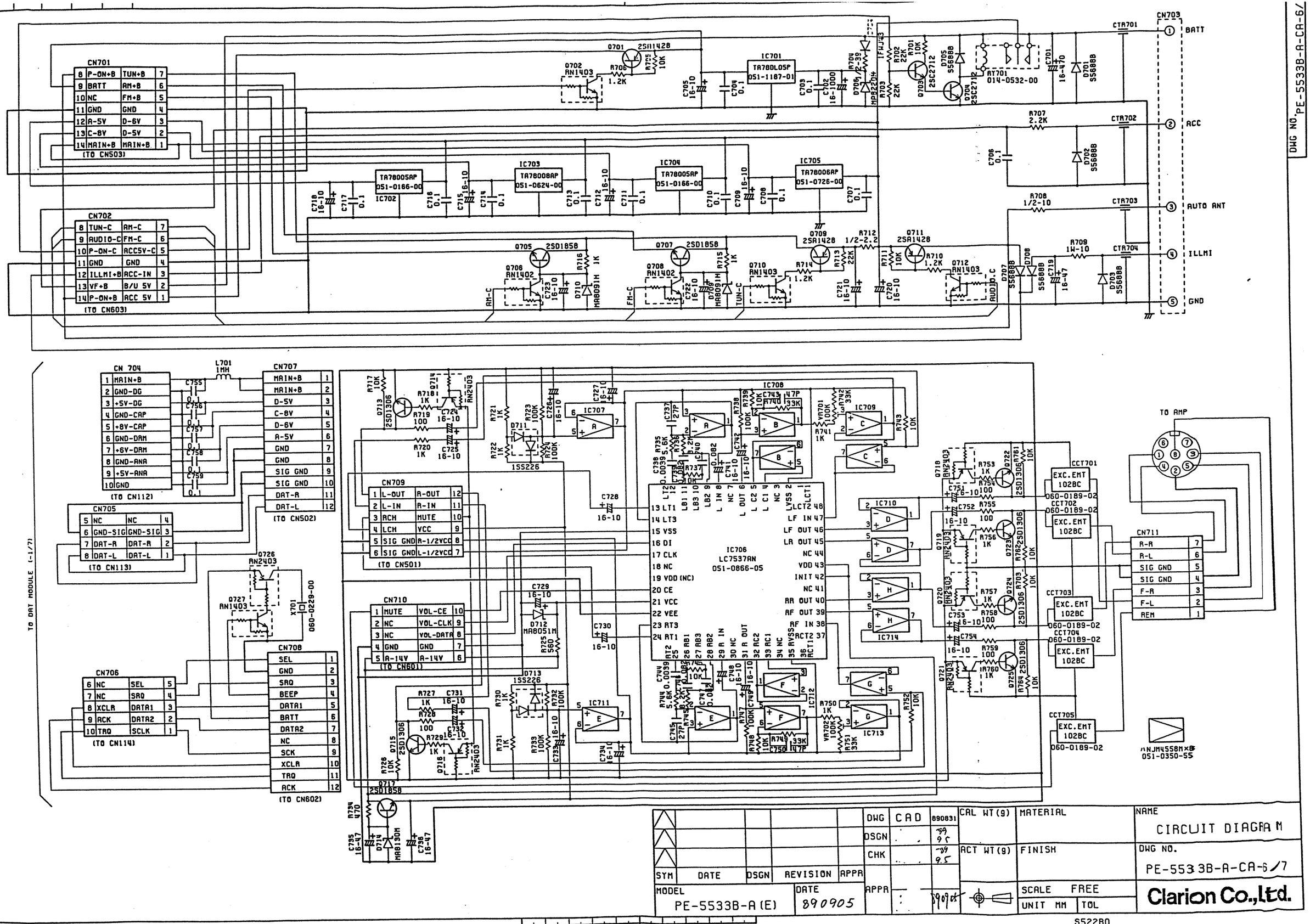
SYM	DATE	DSGN	REVISION	APPR
1	891107		R623	

MODEL PE-5533B-A(E)
DATE 890905

DWG CAD 890831
DSGN 89 9 5
CHK 89 9 5
APPR 89 9 5

CAL WT(g) | MATERIAL | NAME: CIRCUIT DIAGRAM
ACT WT(g) | FINISH | DWG NO. PE-5533B-A-CA-5/7
SCALE FREE | UNIT MM | TOL
Clarion Co.Ltd.

S525B0



DWG NO. PE-5533B-A-CA-6/7

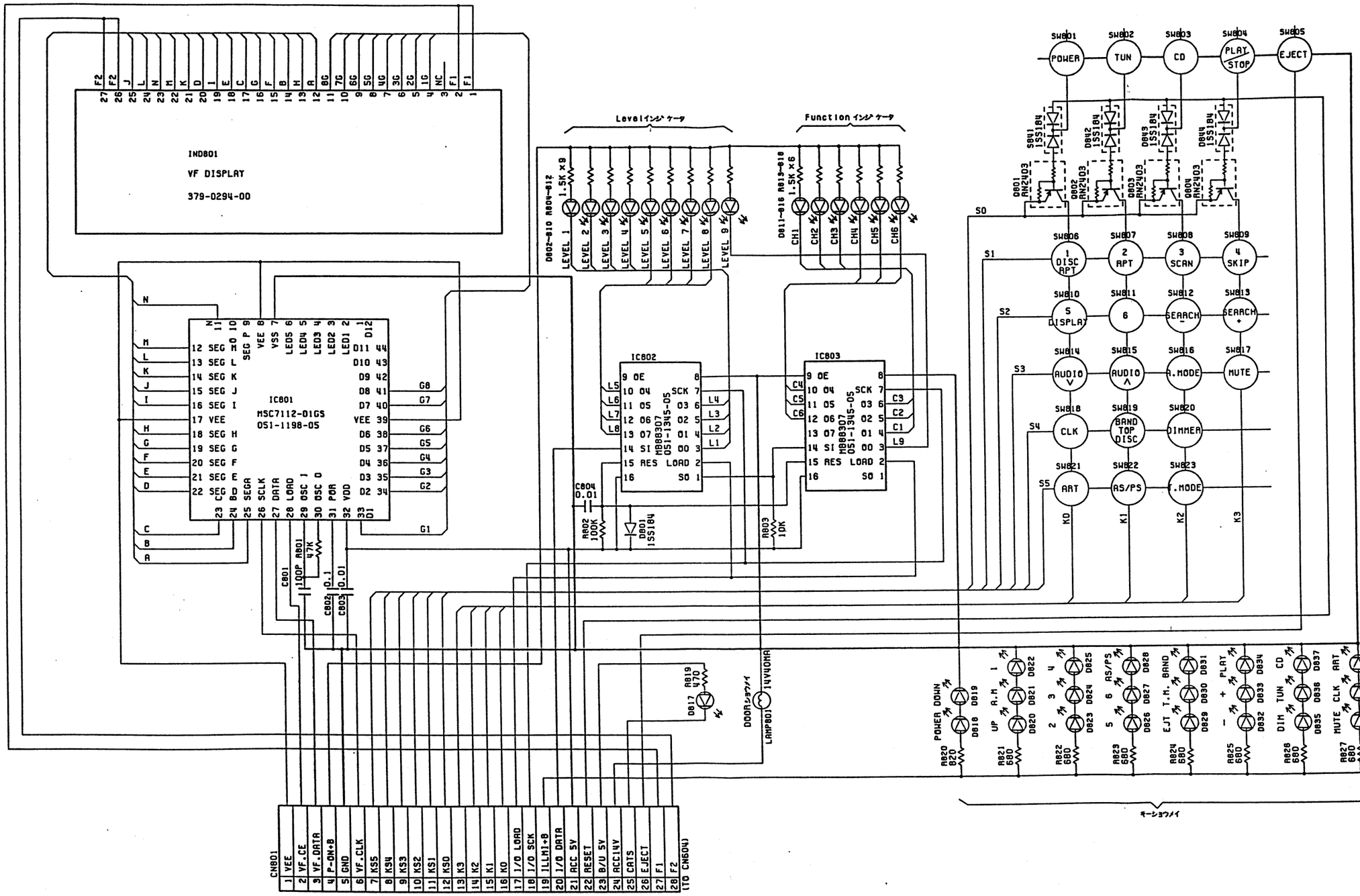
SYM	DATE	DSGN	REVISION	APPR

DWG	CAD	890831	
DSGN		89 9 5	
CHK		89 9 5	
APPR		89 9 5	

CAL WT(g)	MATERIAL	NAME: CIRCUIT DIAGRAM
ACT WT(g)	FINISH	DWG NO.: PE-5533B-A-CA-6/7
	SCALE FREE	Clarion Co.,Ltd.
	UNIT MM TOL	

MODEL PE-5533B-A(E) DATE 890905

S522B0

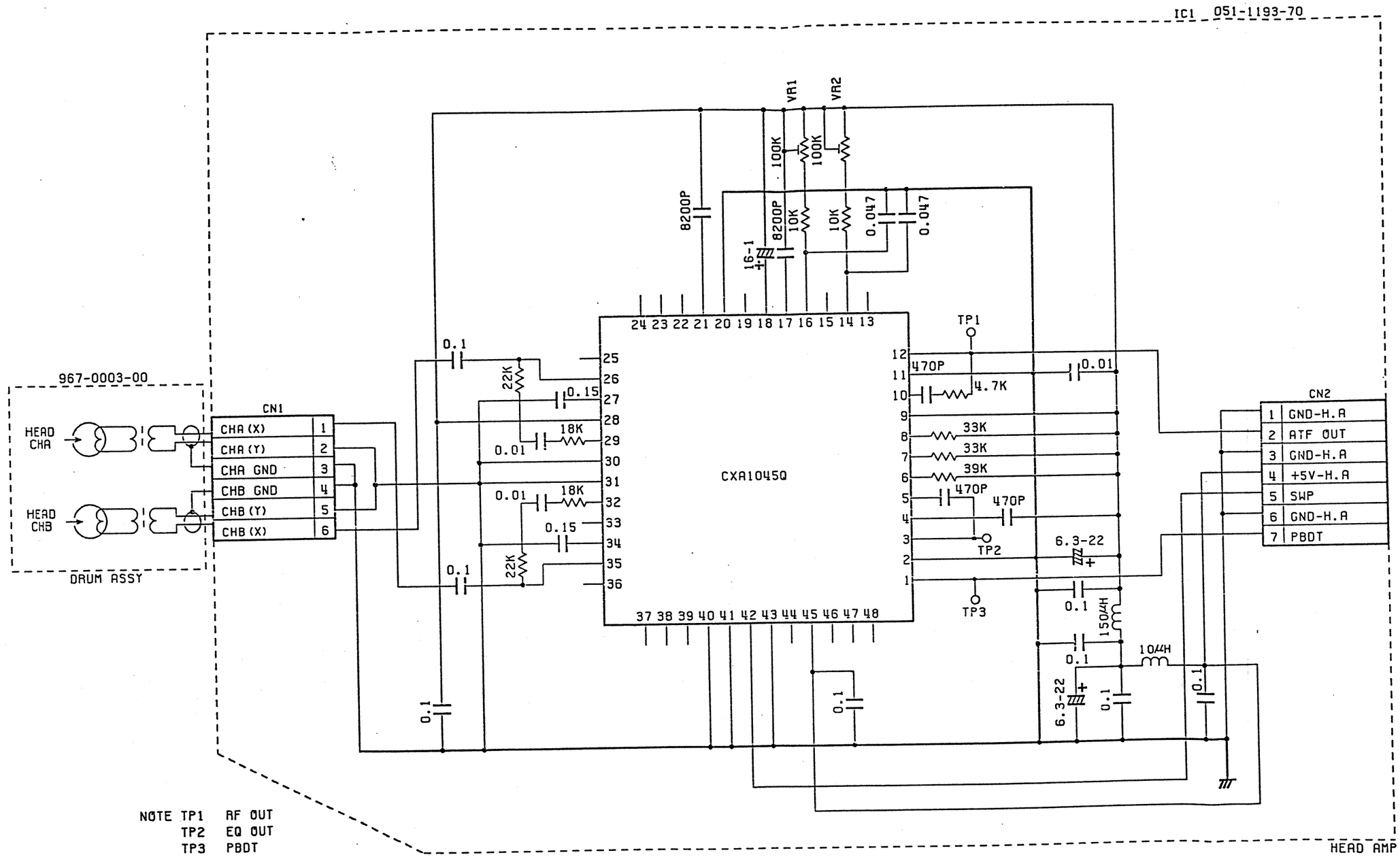


DWG NO. PE-5533B-A-CA-7/7

					DWG	CAD	890831	CAL WT(g)	MATERIAL	NAME
					DSGN		89 9.5			CIRCUIT DIAGRAM
					CHK		89 9.5	ACT WT(g)	FINISH	DWG NO.
SYM	DATE	DSGN	REVISION	APPR	APPR		890905			PE-5533B-A-CA-7/7
MODEL	PE-5533B-A (E)	DATE	890905						SCALE FREE	Clarion Co.,Ltd.
									UNIT MM TOL	

S51680

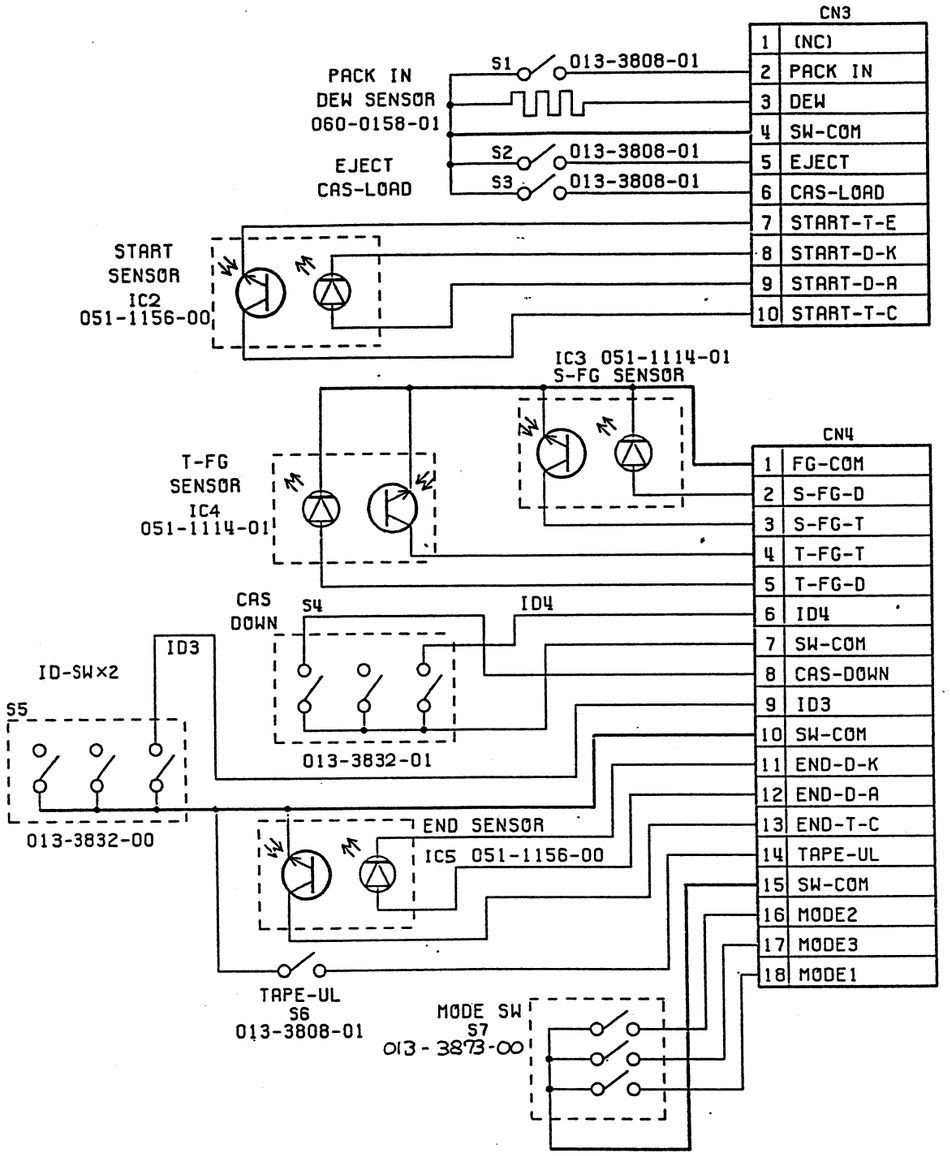
DWG NO 929-2010-00-CA-1/2

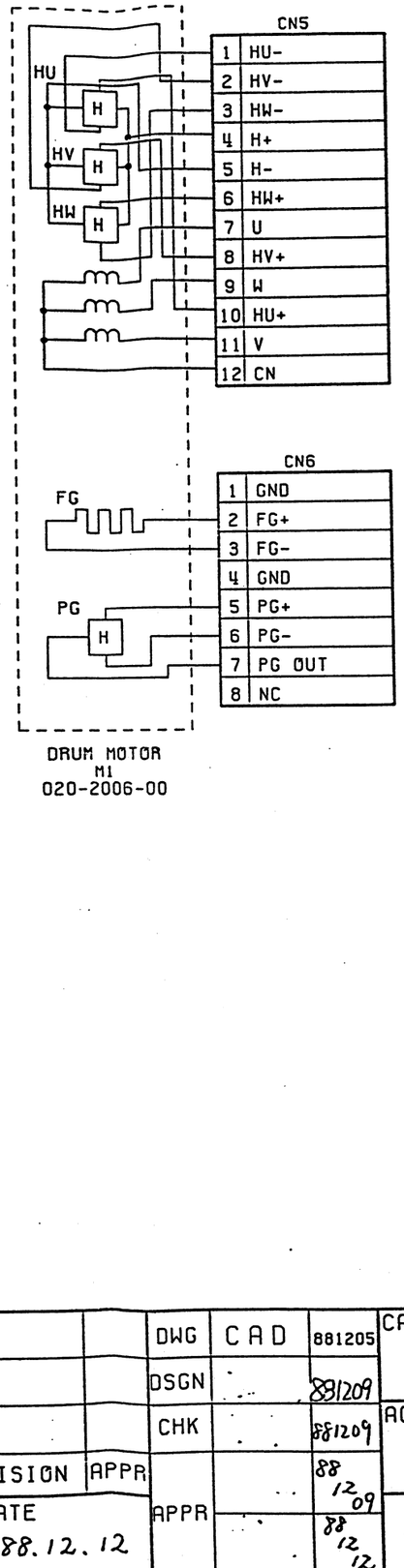


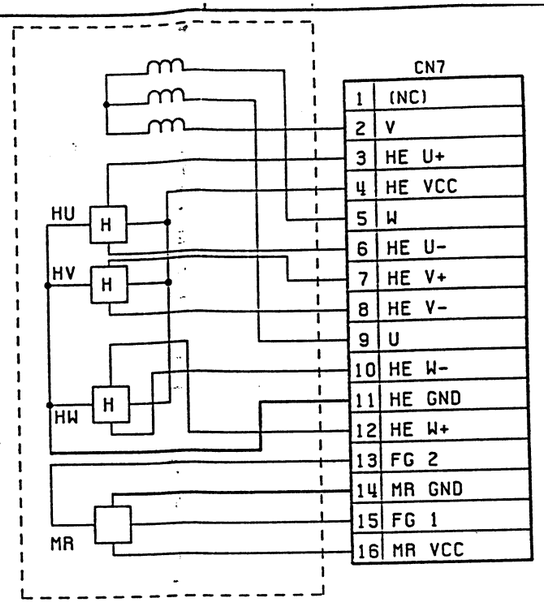
NOTE TP1 RF OUT
TP2 EQ OUT
TP3 PBDT
VR1 A LPF
VR2 B LPF

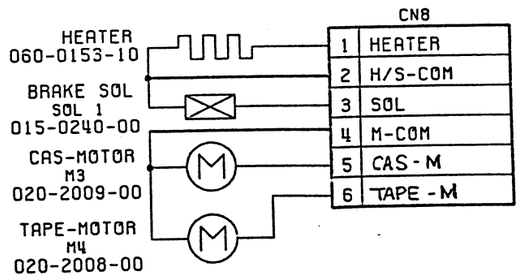
SYM	DATE	DSGN	REVISION	APPR	DWG	CAD	881208	CAL WT(g)	MATERIAL	NAME
					DSGN		881209			CIRCUIT DIAGRAM
					CHK		881209	ACT WT(g)	FINISH	DWG NO.
					APPR		88 12 09			929-2010-00-CA-1/2
MODEL 929-2010-00		DATE 881212					88 12 12		SCALE FREE / UNIT MM / TOL	Clarion Co.,Ltd.

S257B1









DWG NO. 929-2010-00-CA-2/2

SYM	DATE	DSGN	REVISION	APPR

DWG	CAD	881205
DSGN		881209
CHK		881209
APPR		88 12 09
APPR		88 12 12

MODEL 929-2010-00

DATE 88.12.12

CAL WT(g) | MATERIAL | NAME: CIRCUIT DIAGRAM

ACT WT(g) | FINISH | DWG NO. 929-2010-00-CA-2/2

SCALE FREE

UNIT MM | TOL

Clarion Co.,Ltd.

S395A2